

FIG. 1

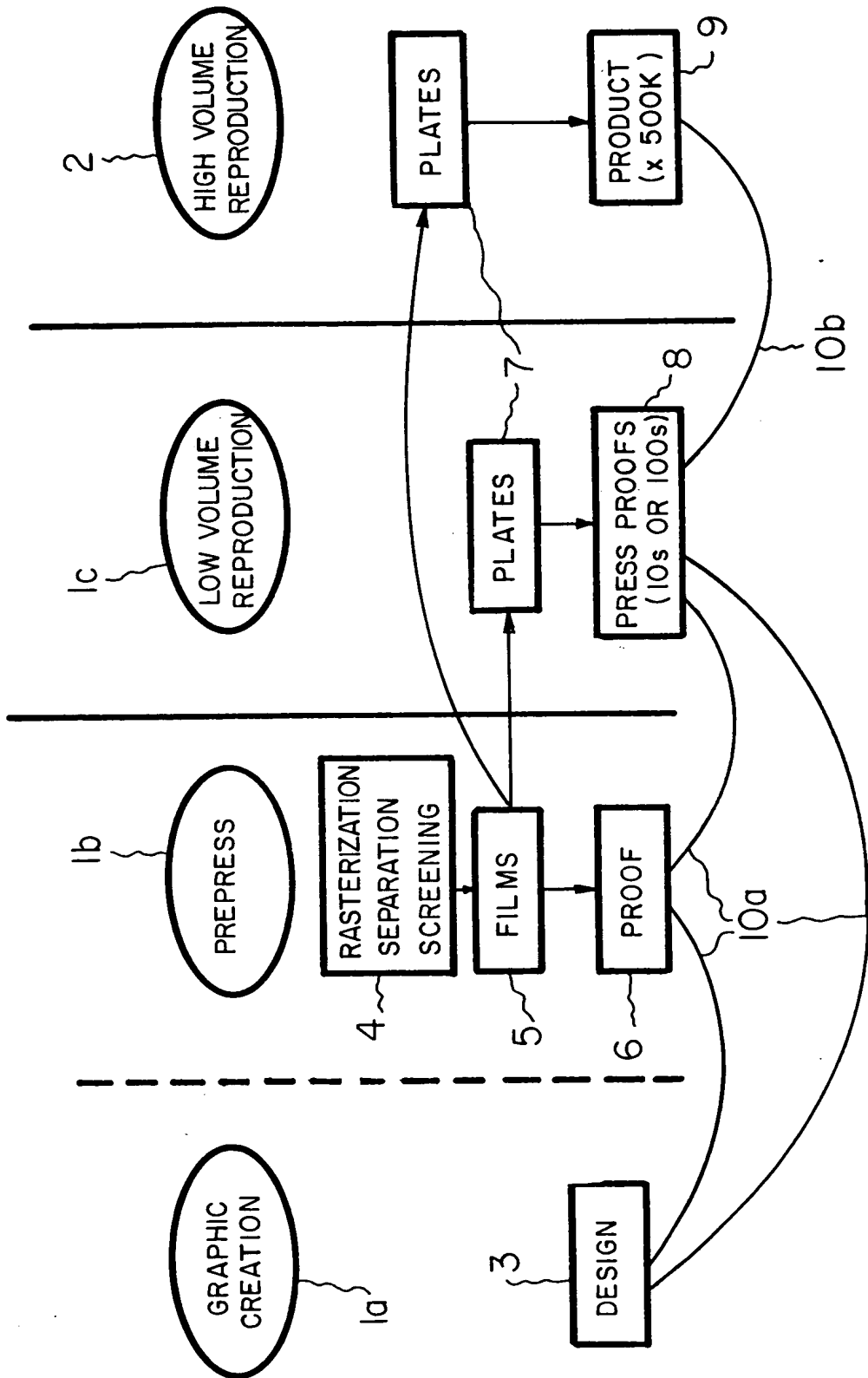
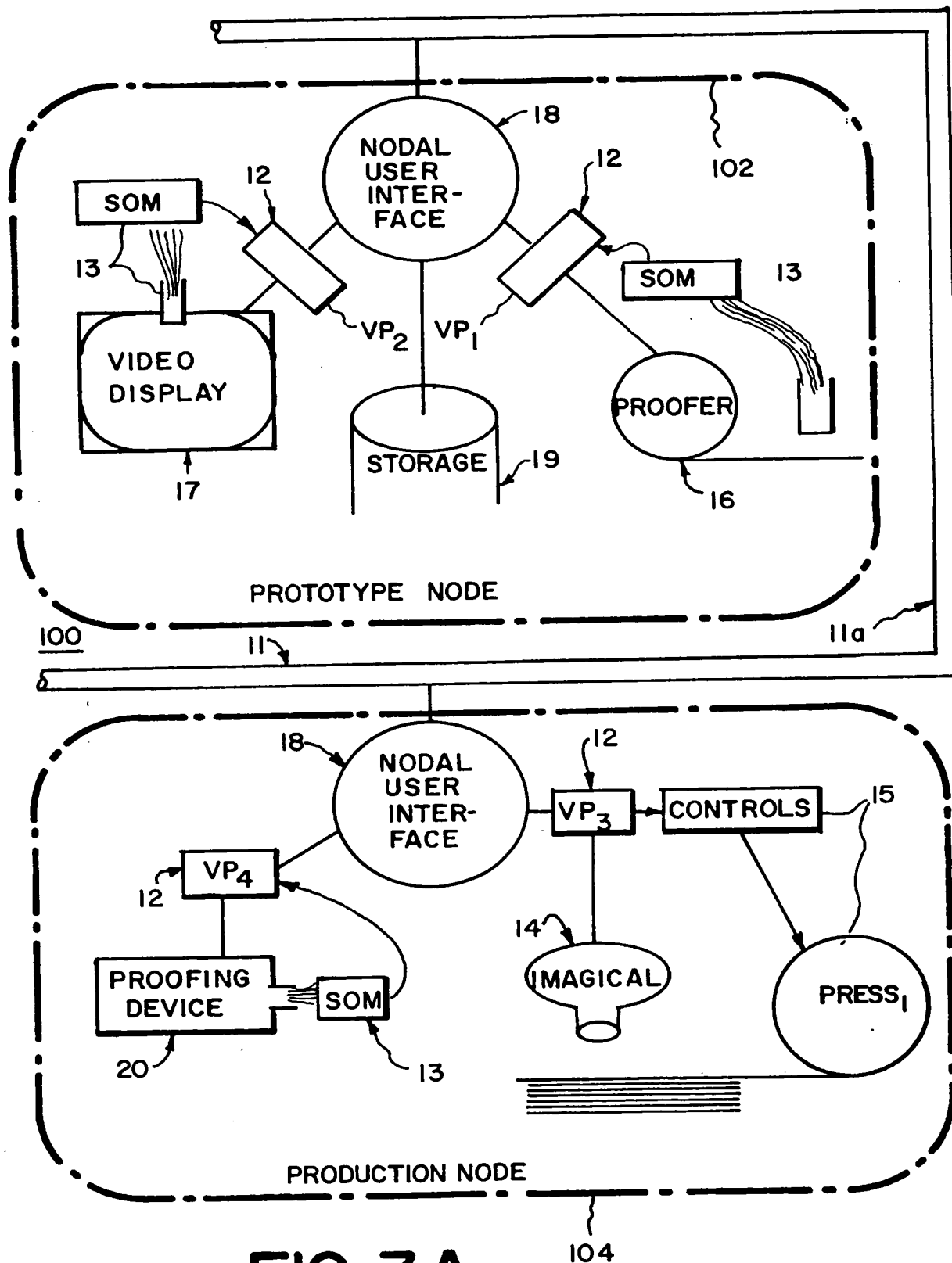
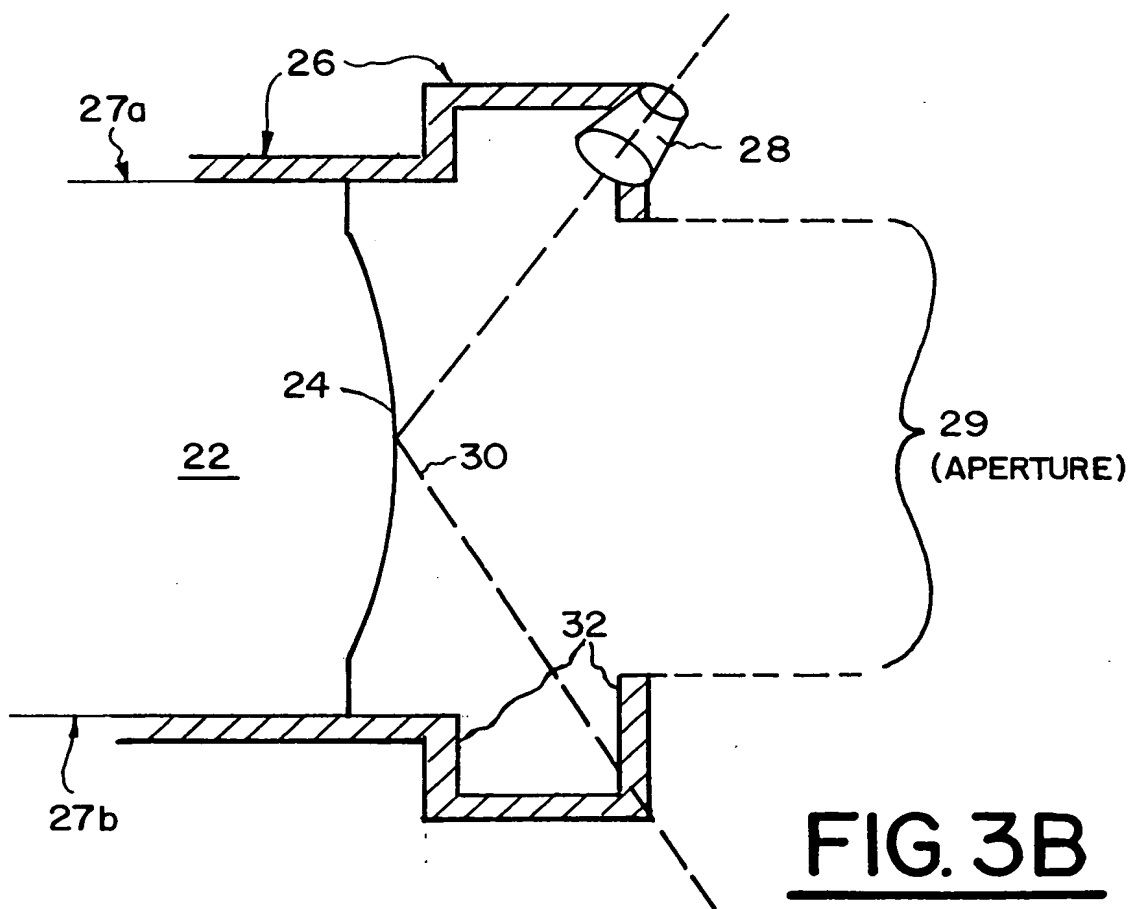
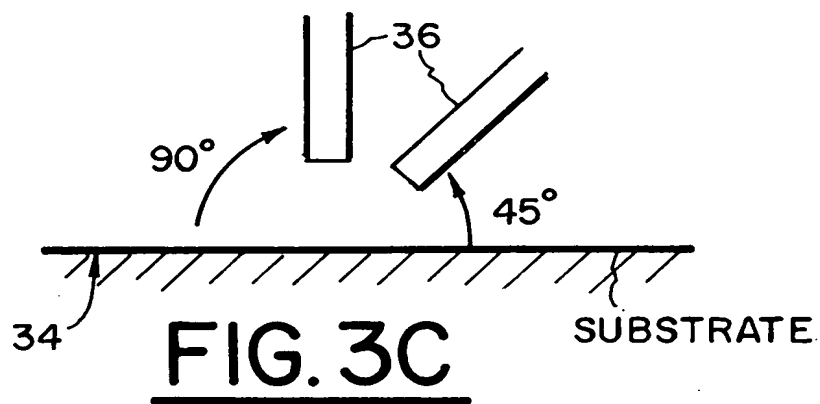


FIG. 2

**FIG. 3A**



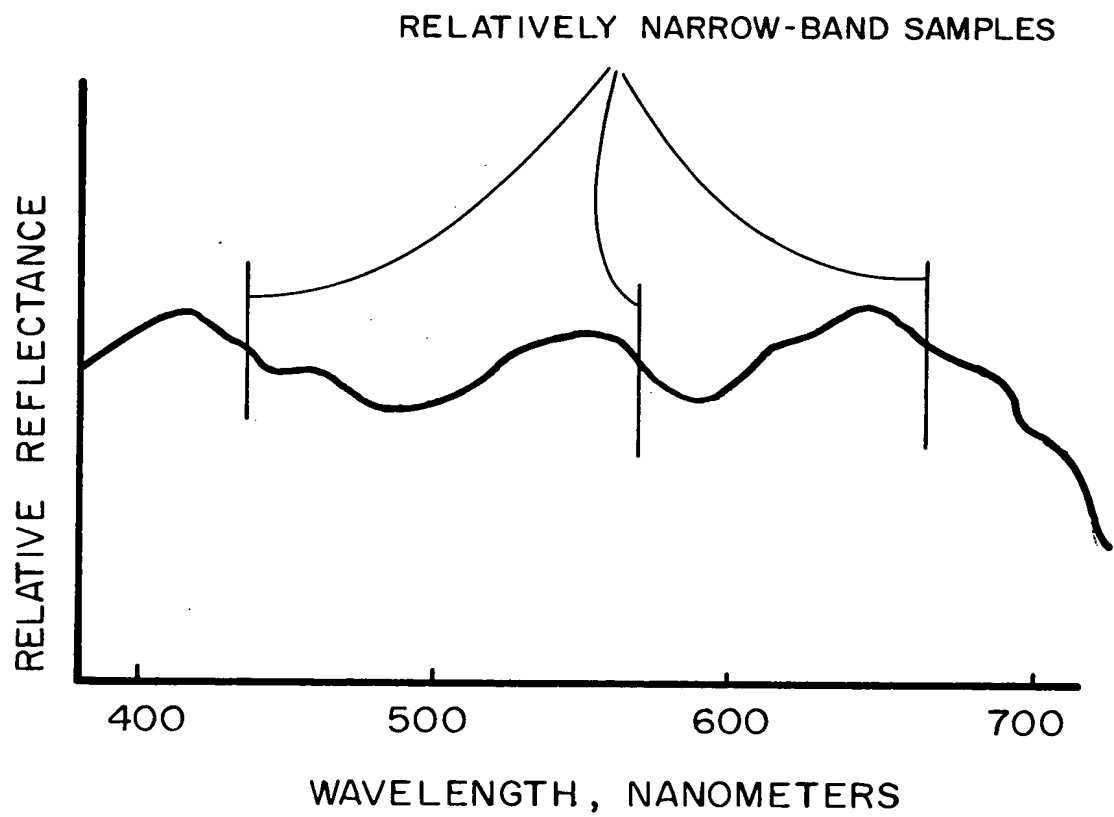
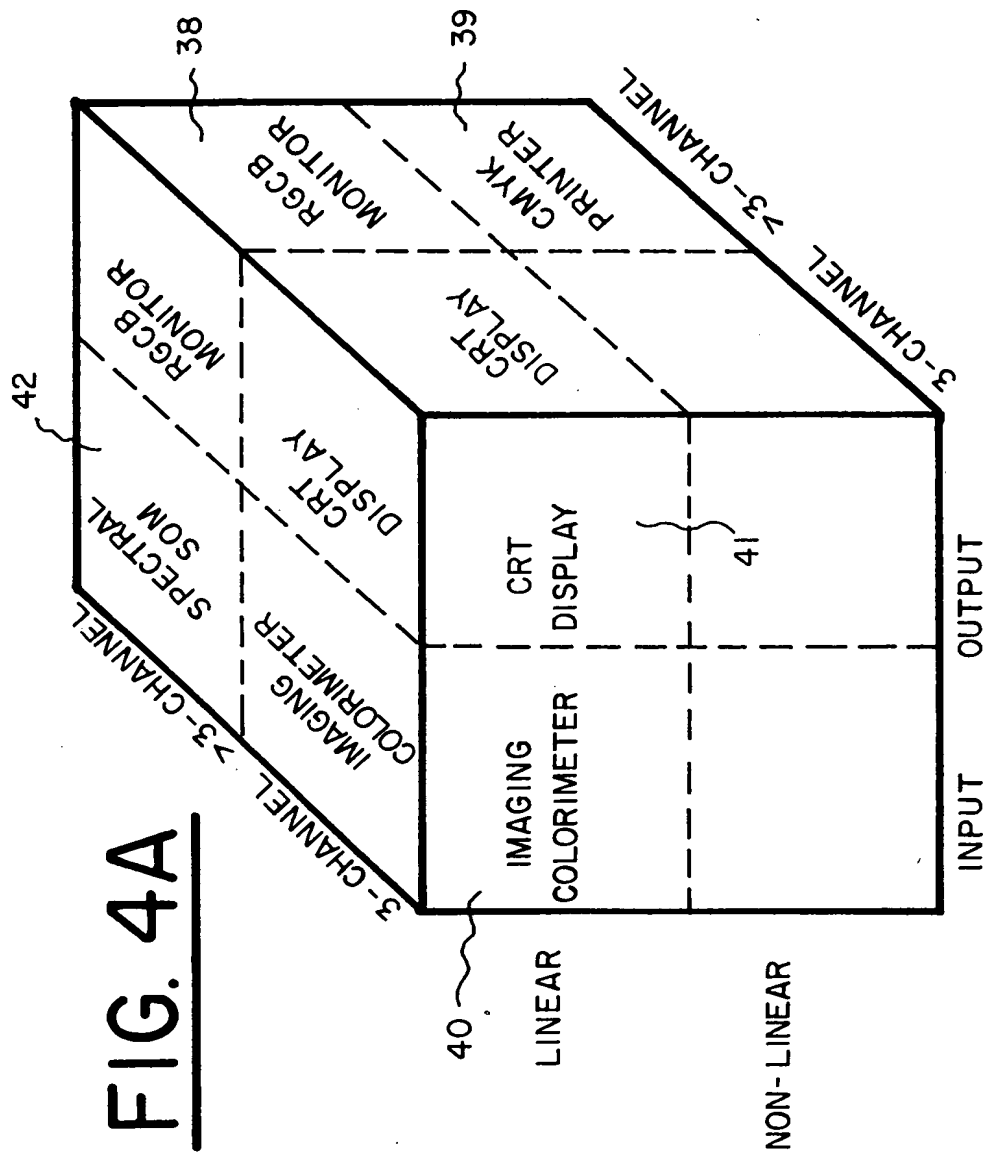


FIG. 3D



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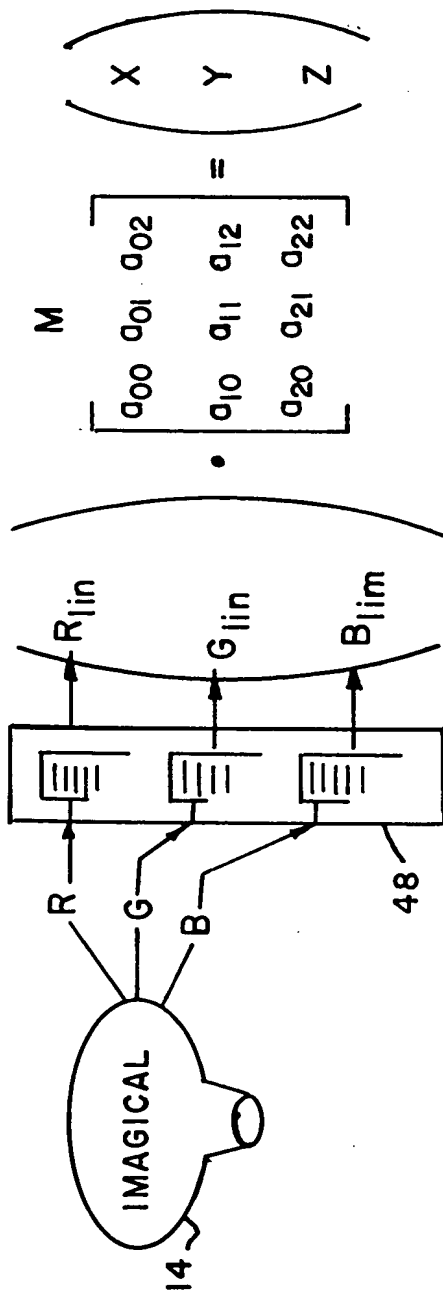


FIG. 4B

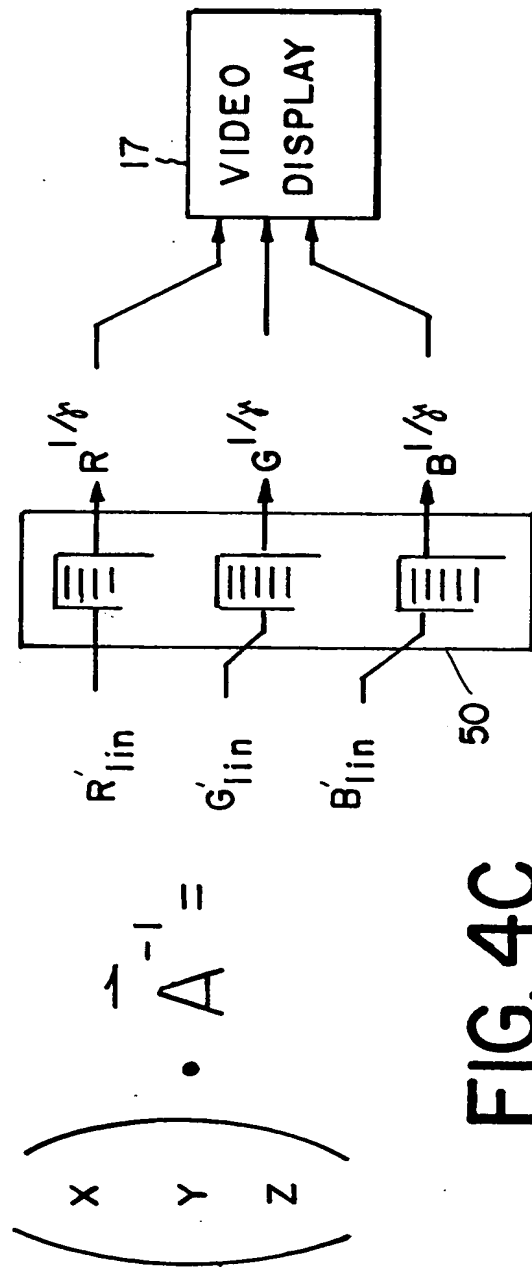
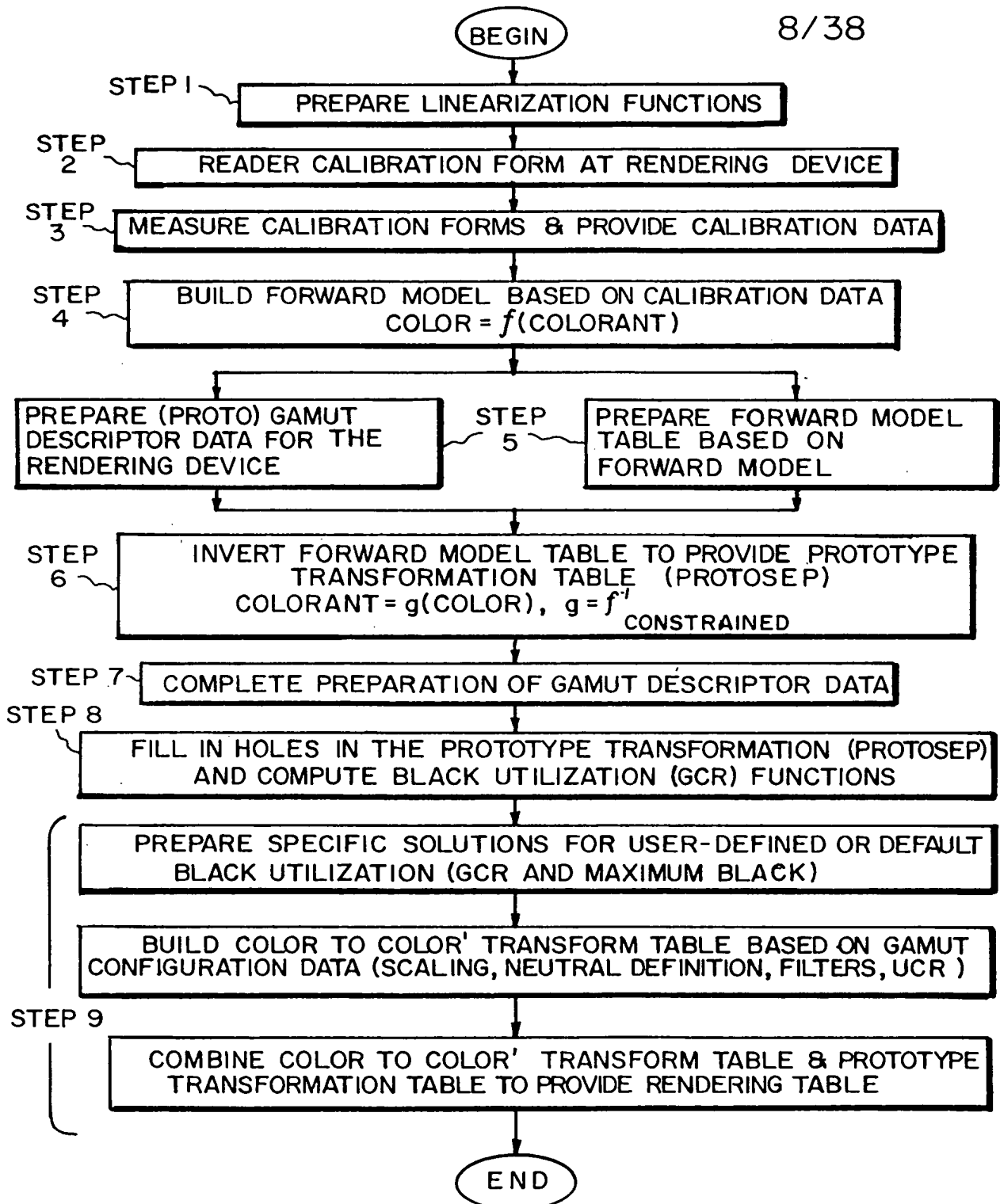
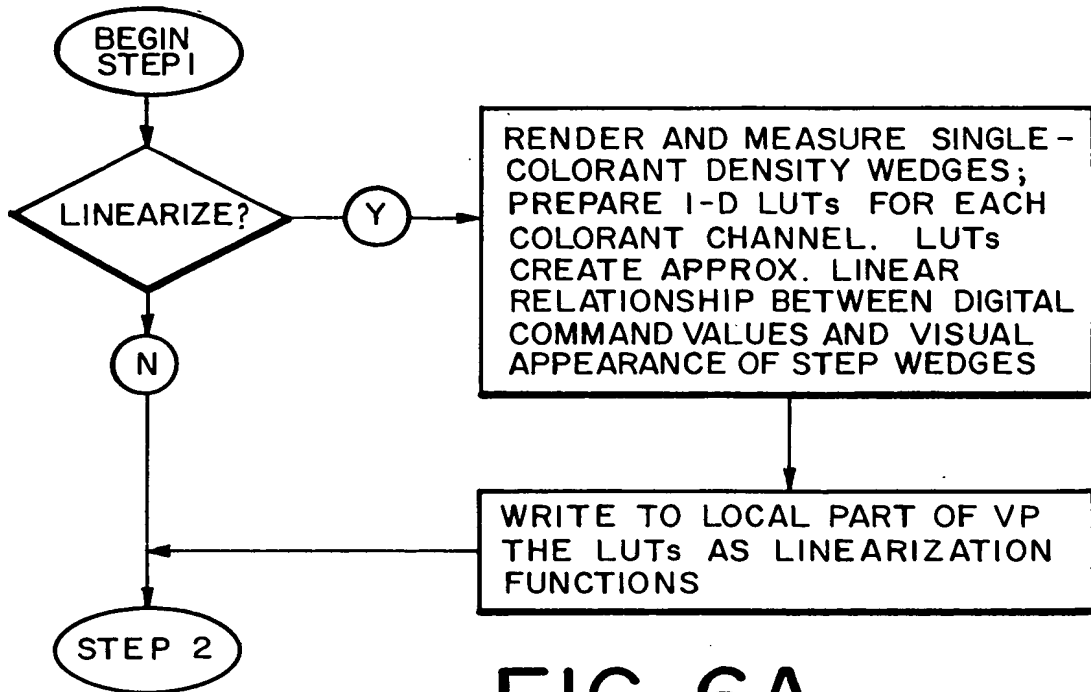
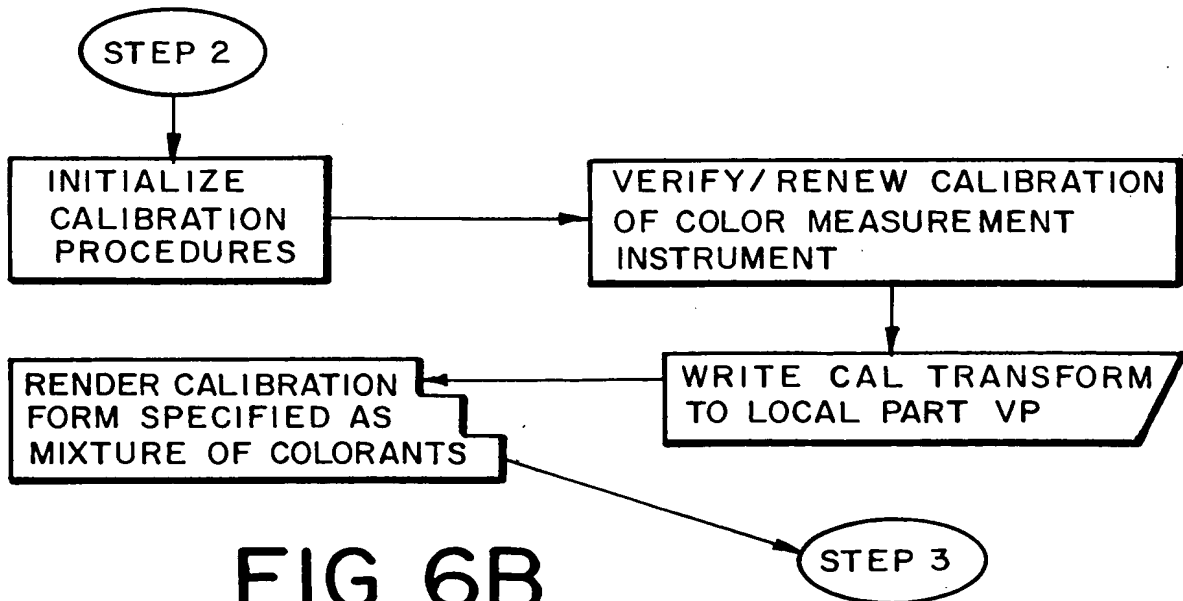


FIG. 4C

$$M \begin{bmatrix} a_{00} & a_{01} & a_{02} \\ a_{10} & a_{11} & a_{12} \\ a_{20} & a_{21} & a_{22} \end{bmatrix} = \begin{pmatrix} X \\ Y \\ Z \end{pmatrix}$$

$$\begin{pmatrix} X \\ Y \\ Z \end{pmatrix} \cdot \bar{A}^{-1} =$$

FIG. 5

FIG. 6AFIG. 6B

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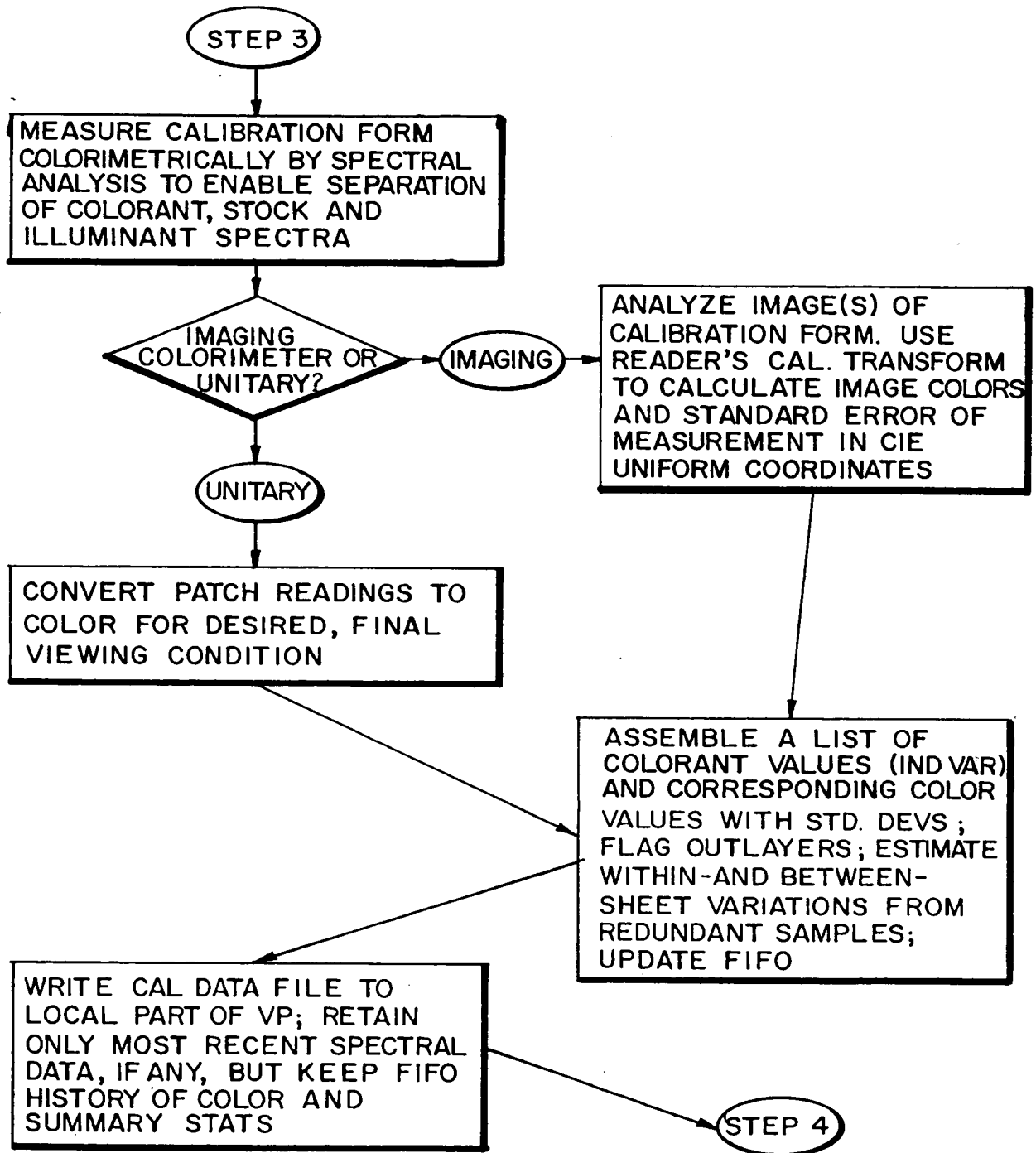
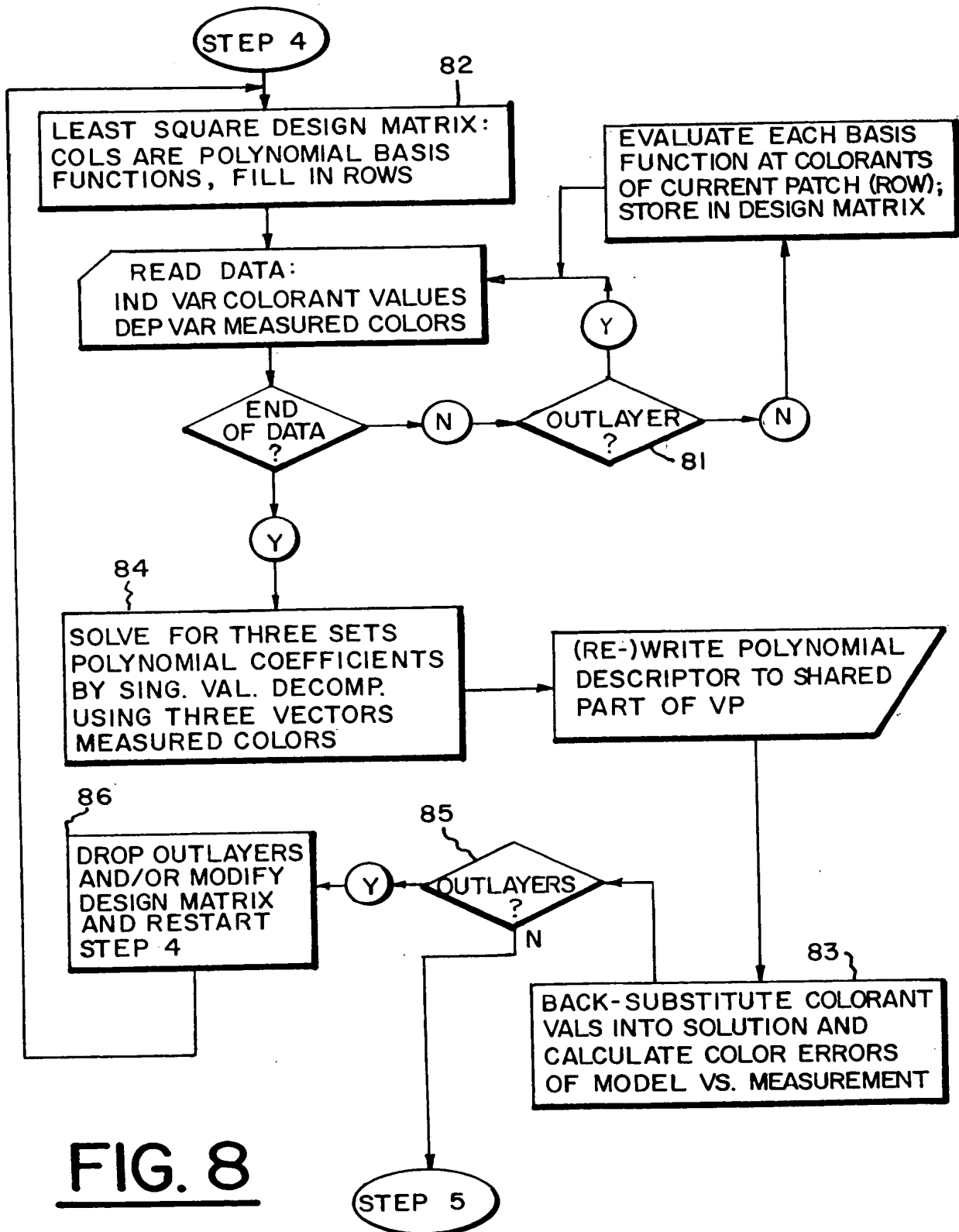


FIG. 7

**FIG. 8**

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STEP 5

PREPARE FORWARD MODEL INTERPOLATION
TABLE AND PROTOTYPE GAMUT DESCRIPTOR;
FOR FMT, DEFINE 1-D INPUT AND OUTPUT
CONDITIONING LUTs AND COLORANT QUANT-
IZATION/ADDRESSING SCHEME; FOR PGD,
DEFINE CYL. COORD. QUANT. SCHEME

DO NESTED LOOPING OVER ALL
COLORANT ADDRESSES AND
COMPUTE COLORS WITH FORWARD
MODEL FROM STEP 4

97

STORE COLORS IN CARTESIAN
COORDINATES IN COLORANT-
TO-COLOR TABLE (FMT)

BUILD PROTO-GAMUT-DESCRIPTOR:
STORE COLORS IN CYLINDRICAL
COORDINATES; MAKE LINKED
LISTS OF CHROMA VALUES
OCCURRING AT EACH QUANTIZED
HUE ANGLE / LIGHTNESS
COORDINATE

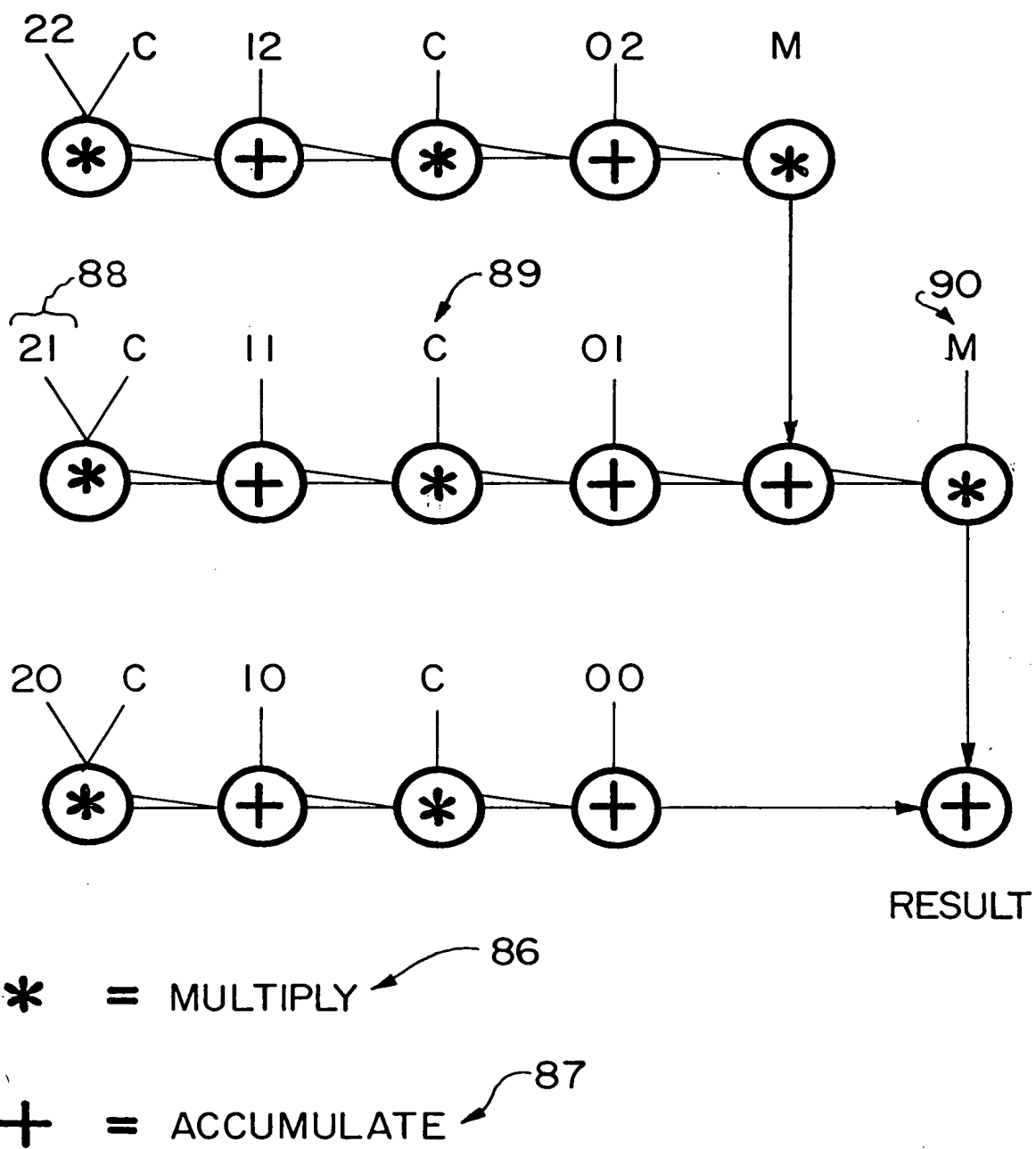
99

WRITE TO SHARED PART OF VP

WRITE TO LOCAL PART OF VP

STEP 6

FIG. 9A

FIG. 9B

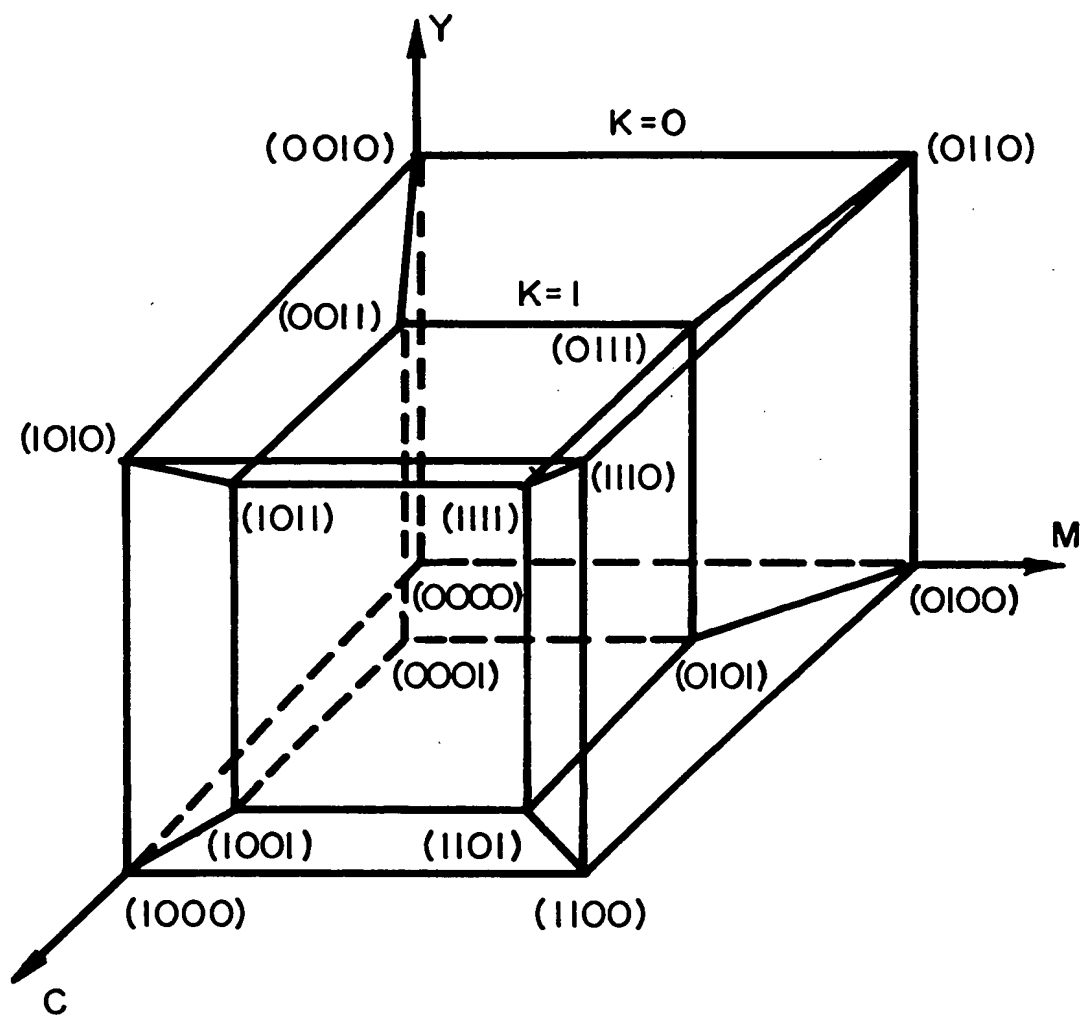


FIG. 9C

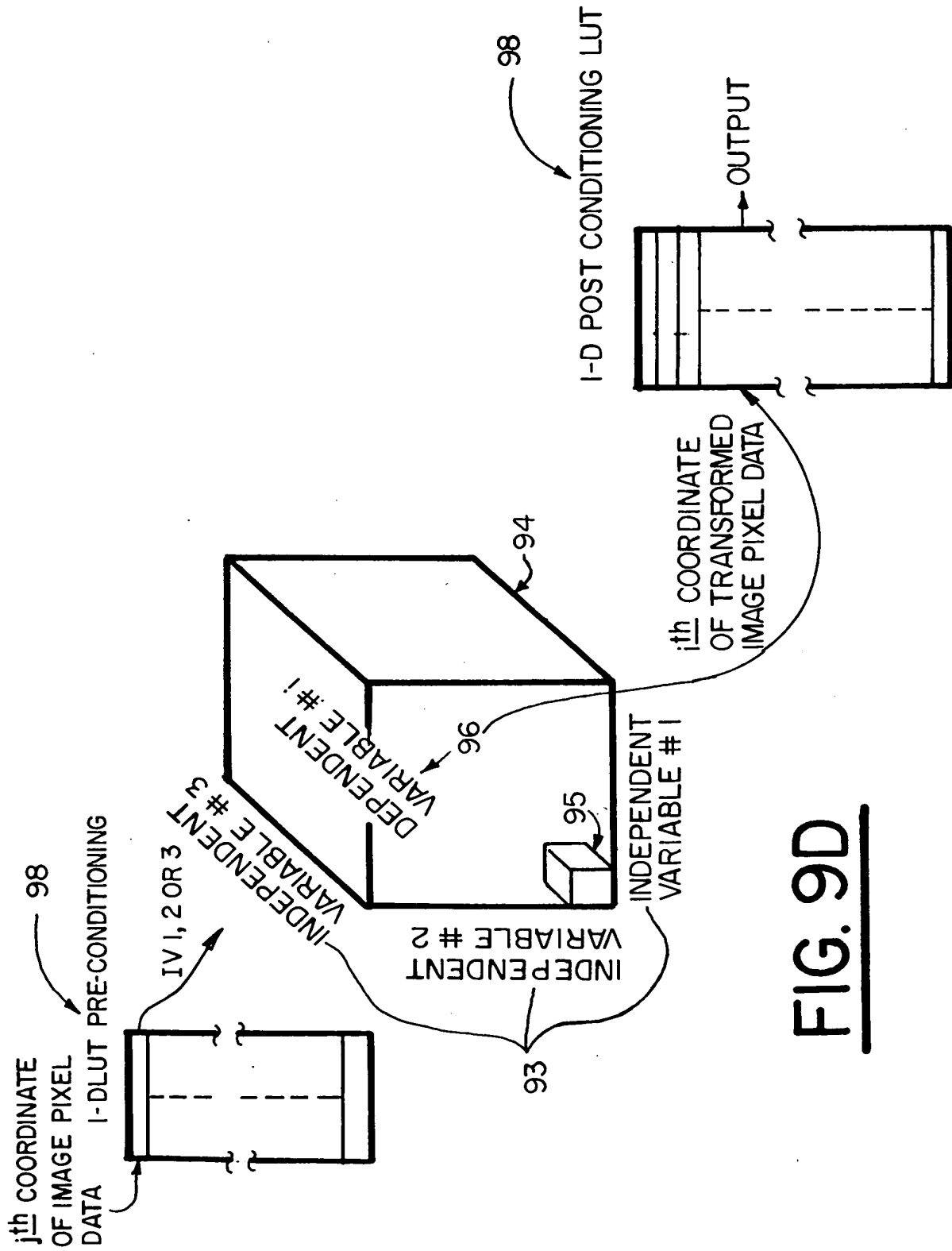
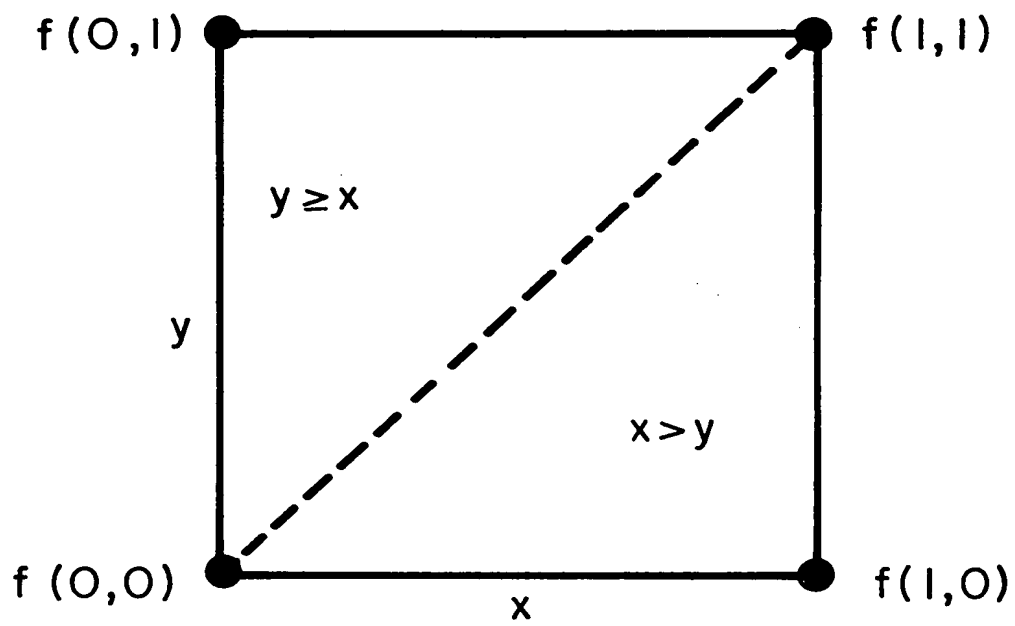
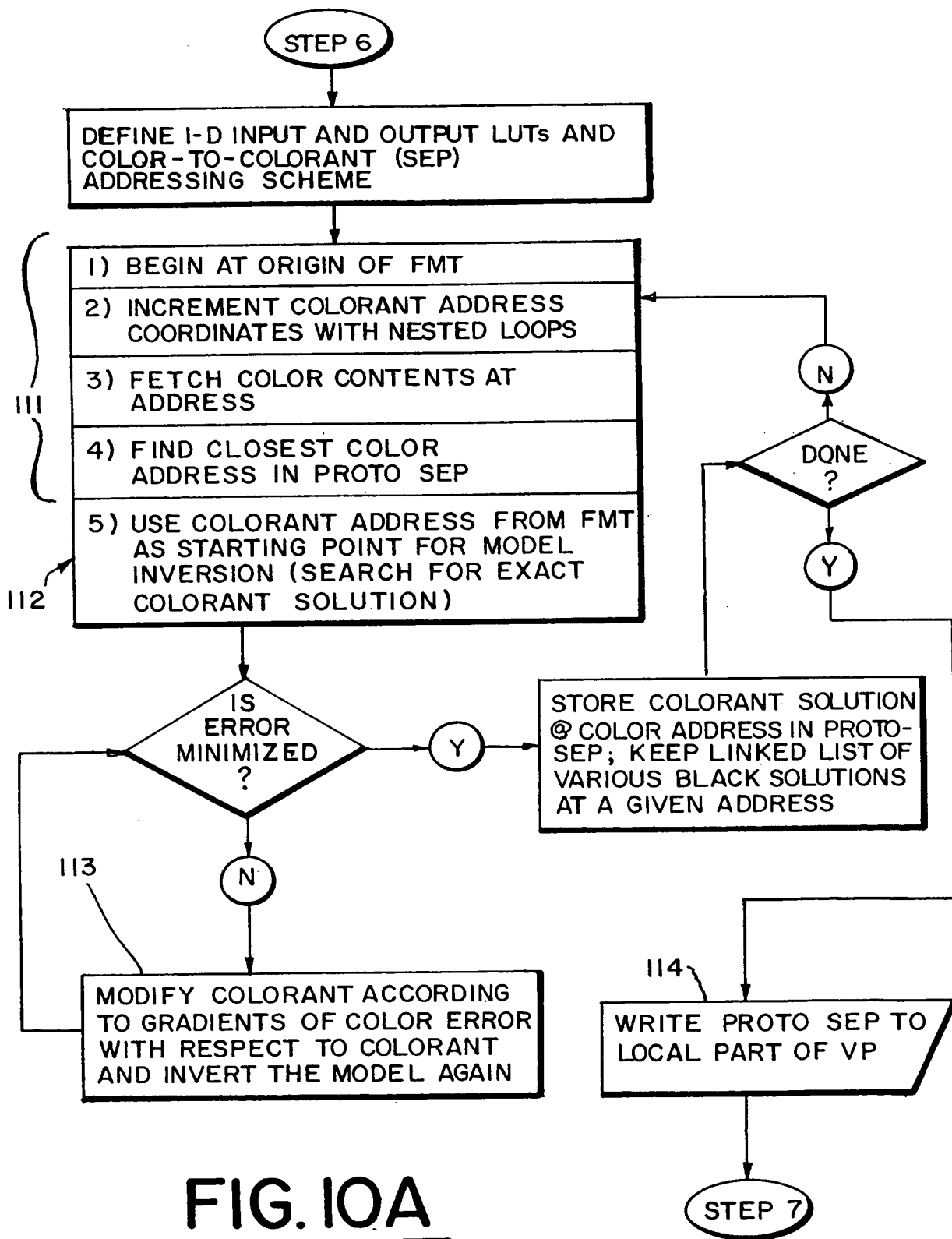
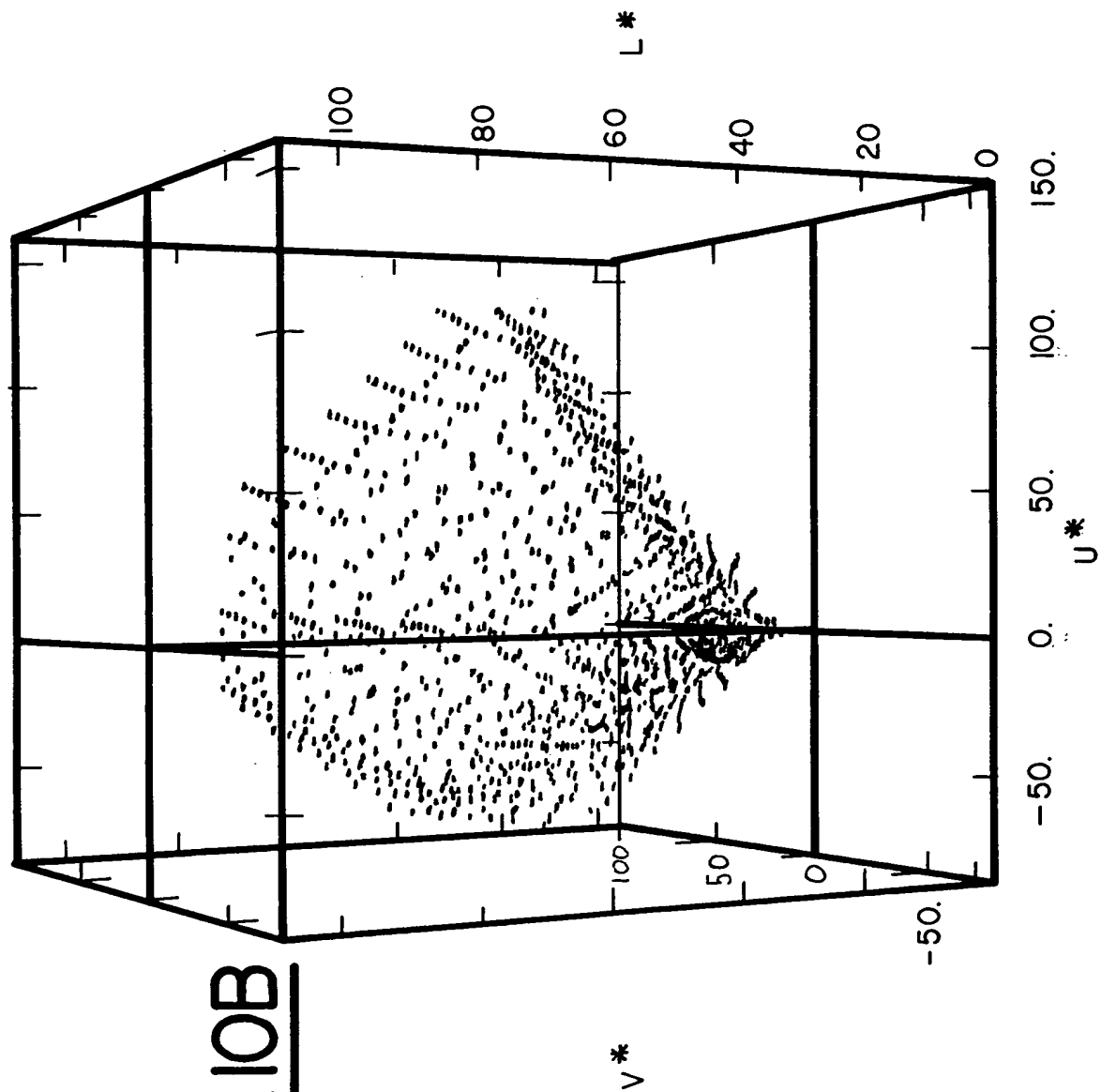
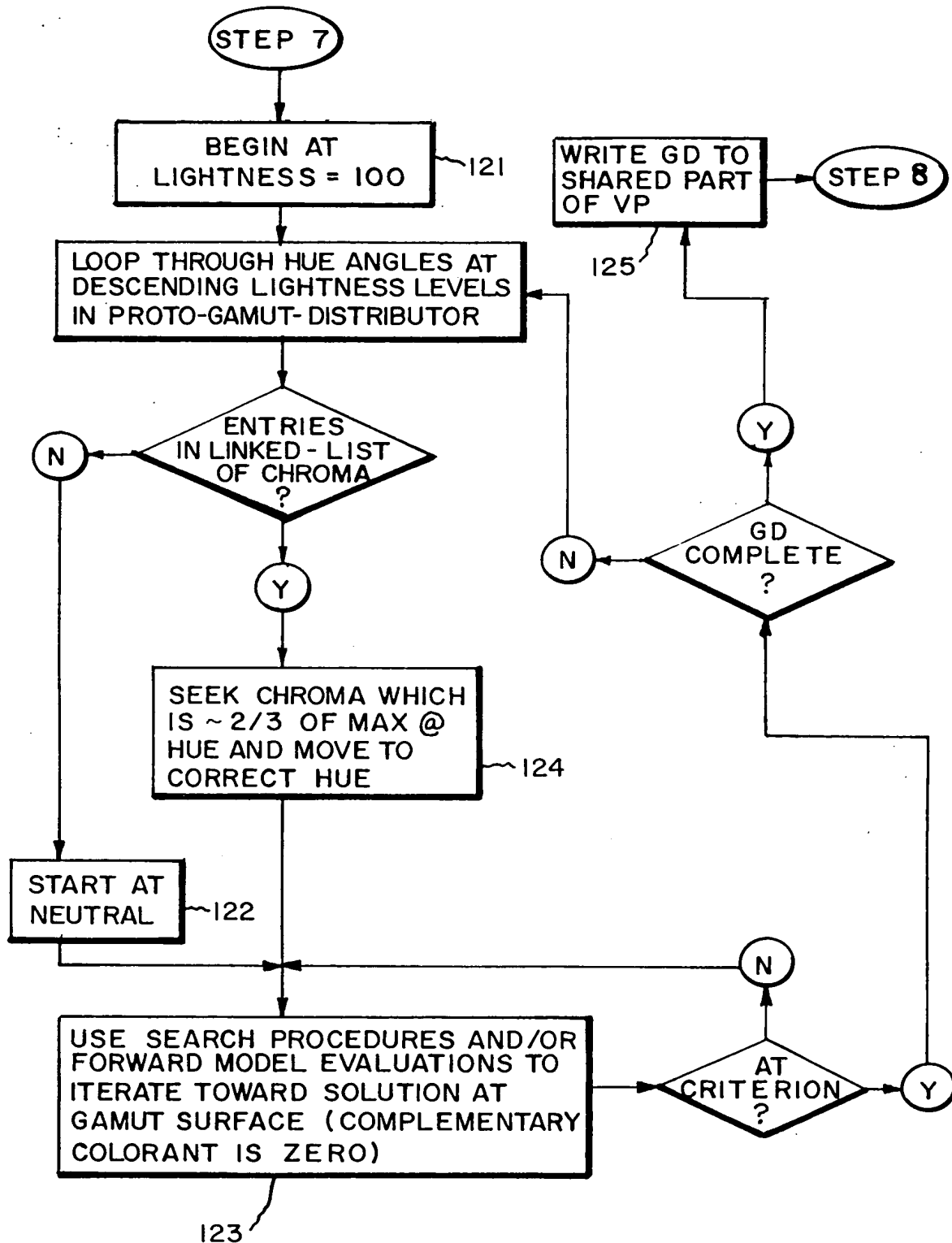


FIG. 9D

FIG. 9E

FIG. 10A



FIG. II

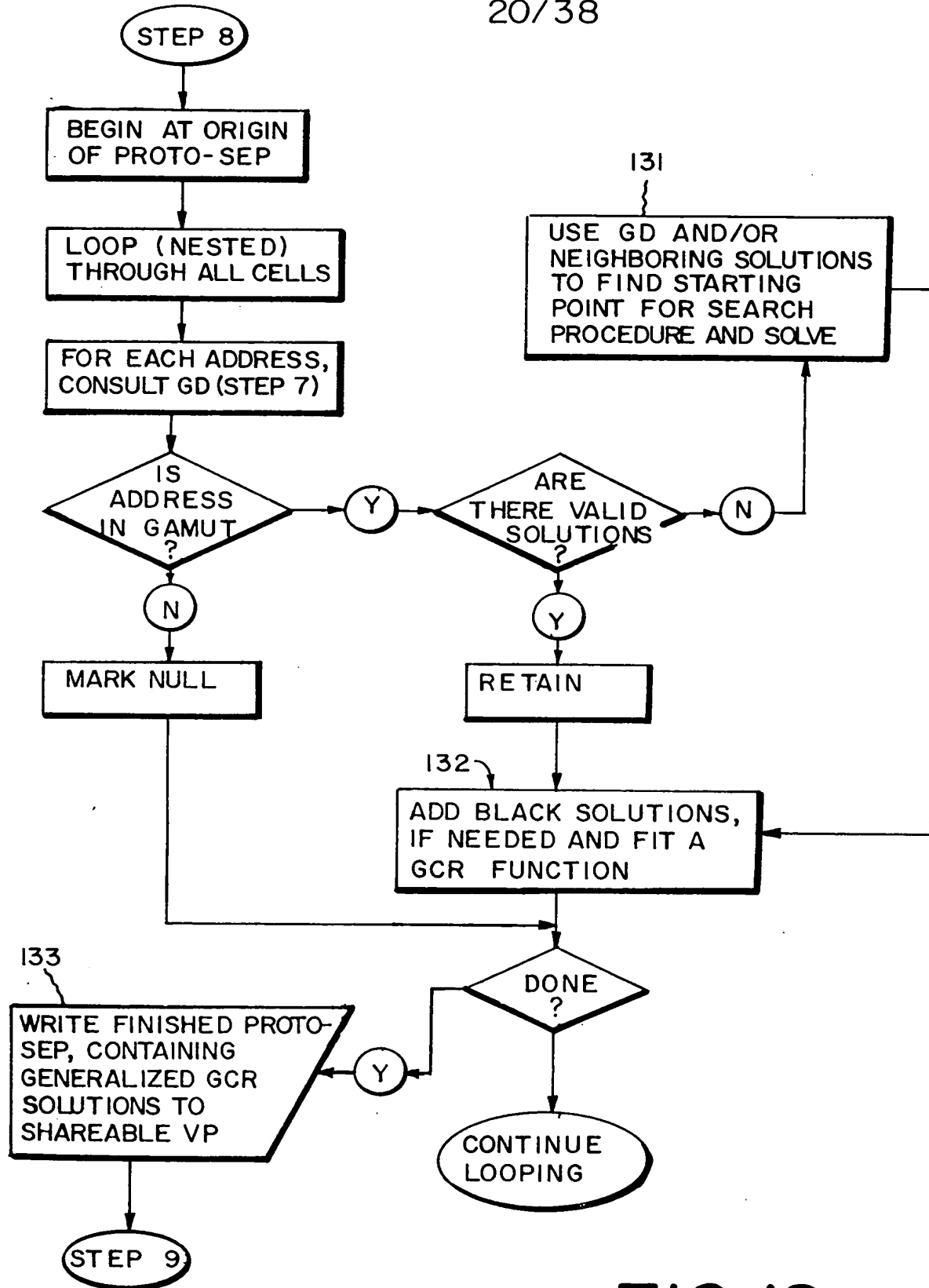
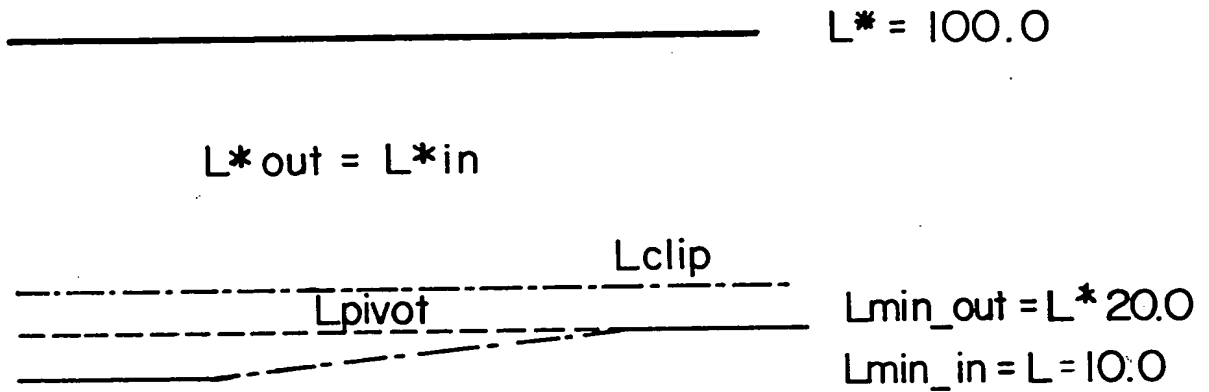
FIG. 12



FIG. 13

CASE 1: THE MINIMUM INPUT L^* IS LESS THAN
MINIMUM OUTPUT L^*



CASE 2: THE MINIMUM INPUT L^* IS GREATER THAN
MINIMUM OUTPUT L^*

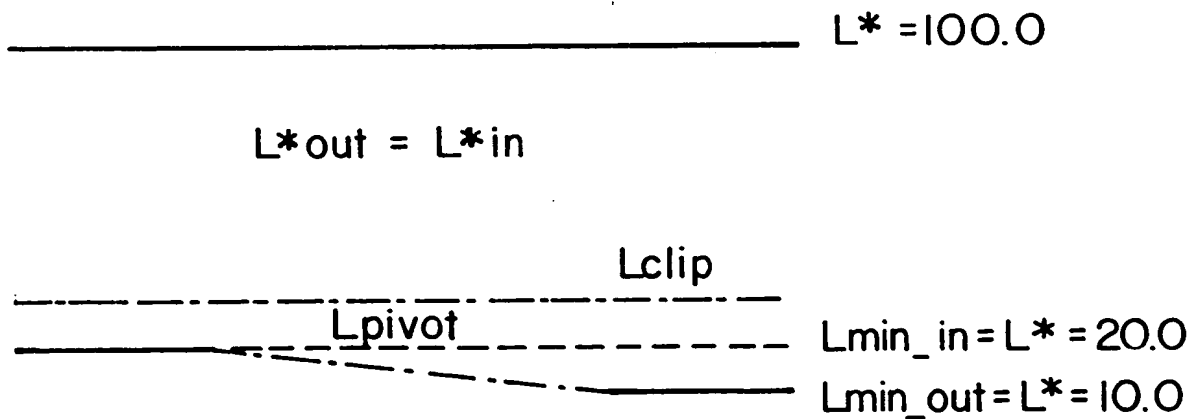
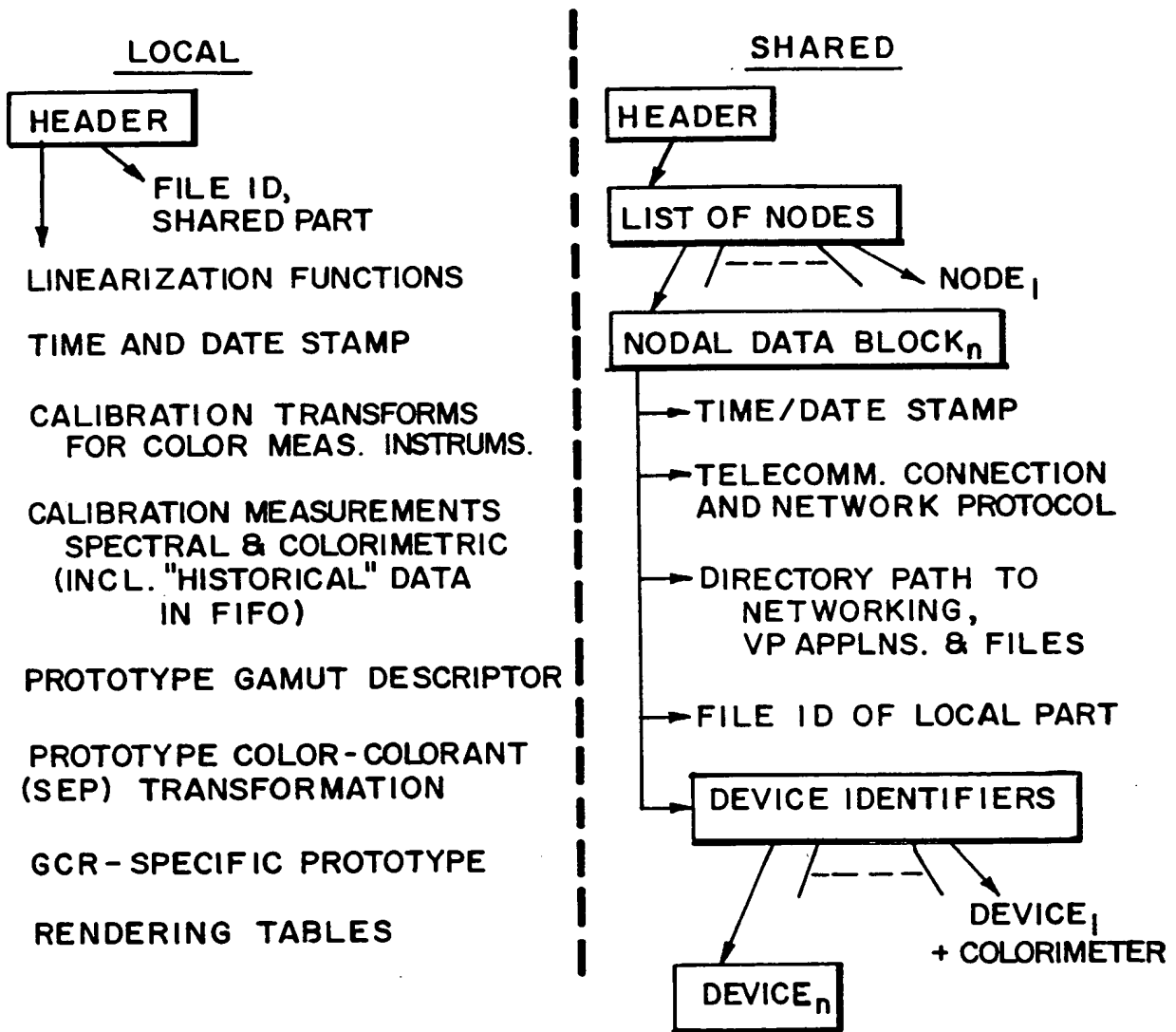


FIG. 14

FIG. 15A

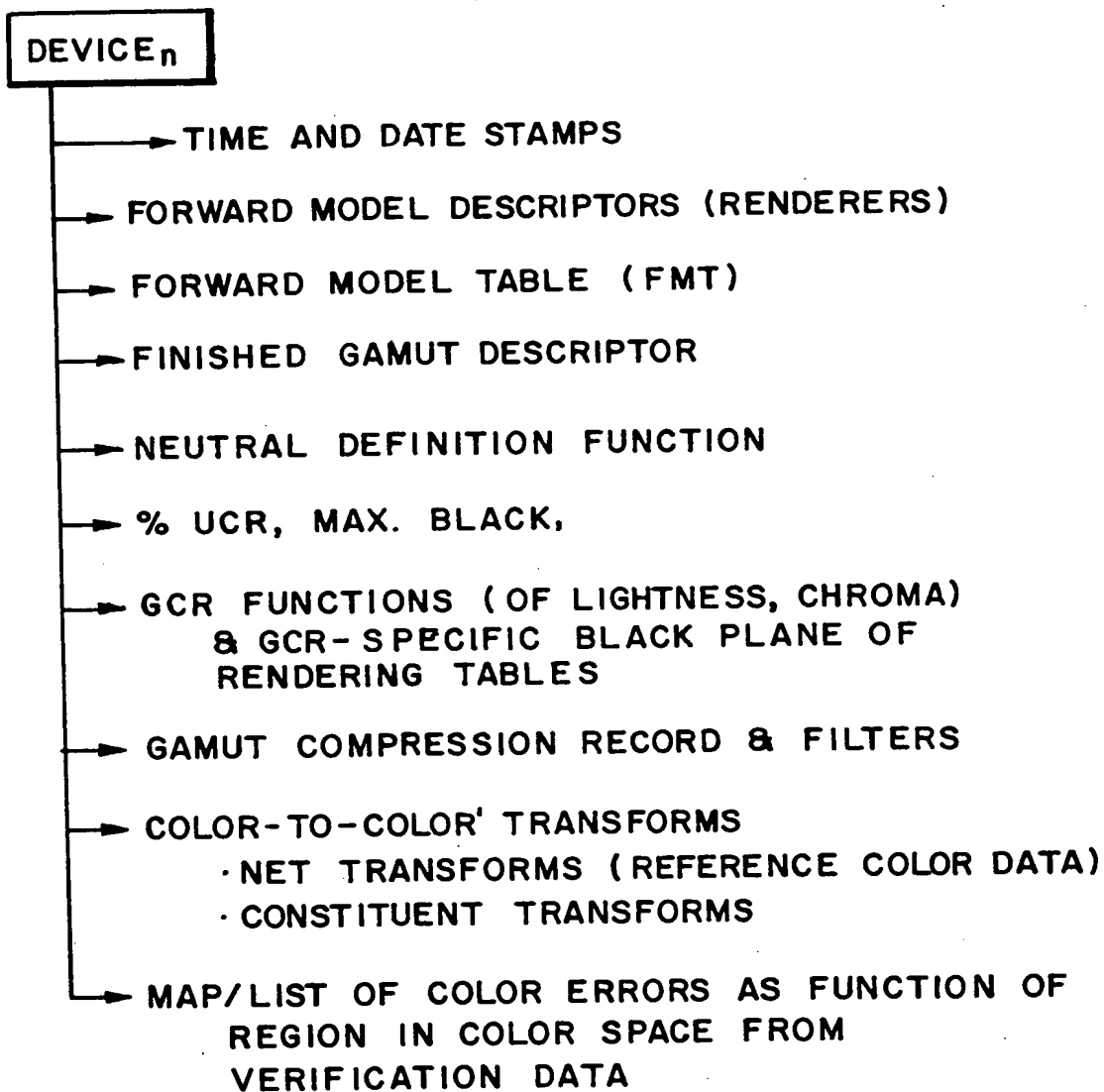


FIG. 15B

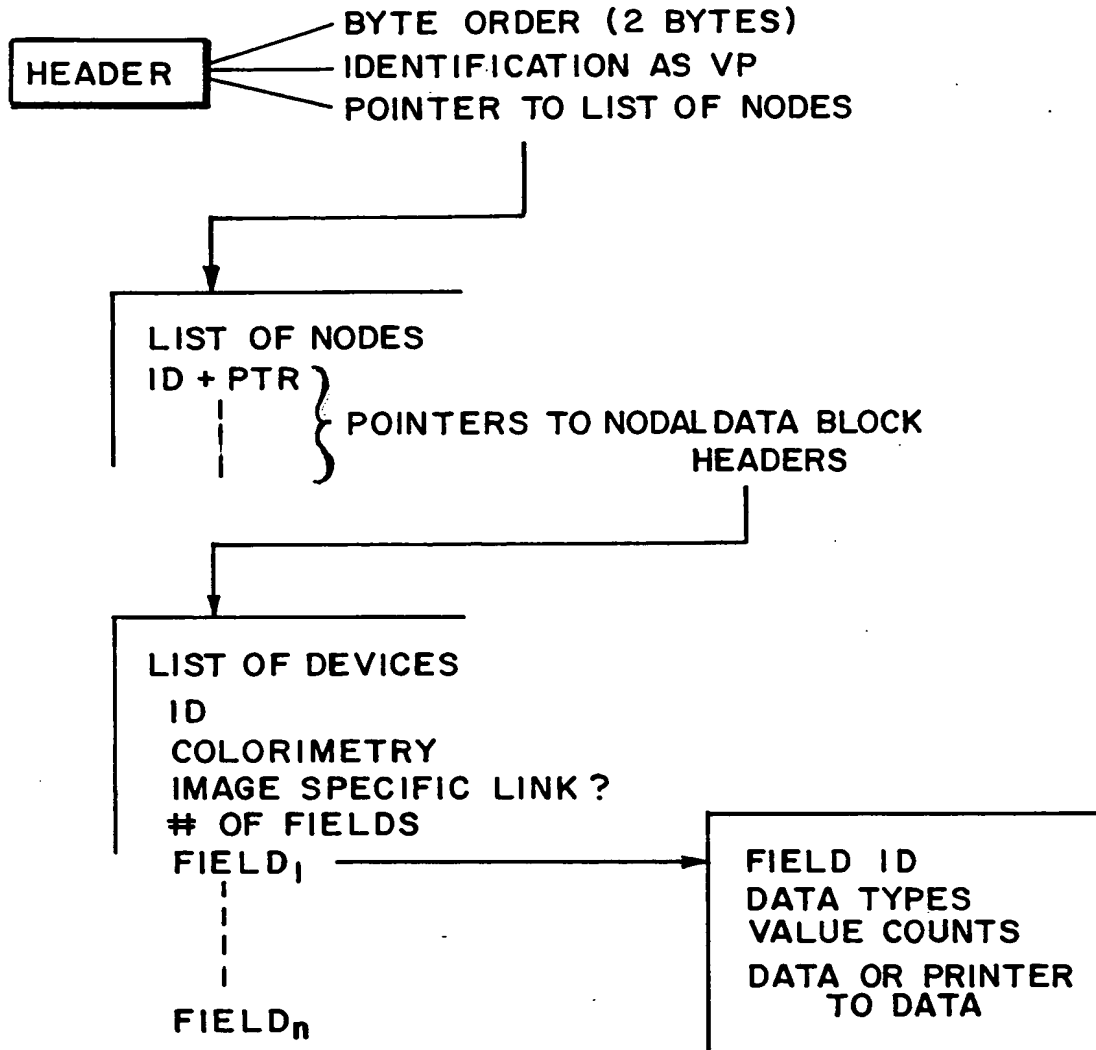
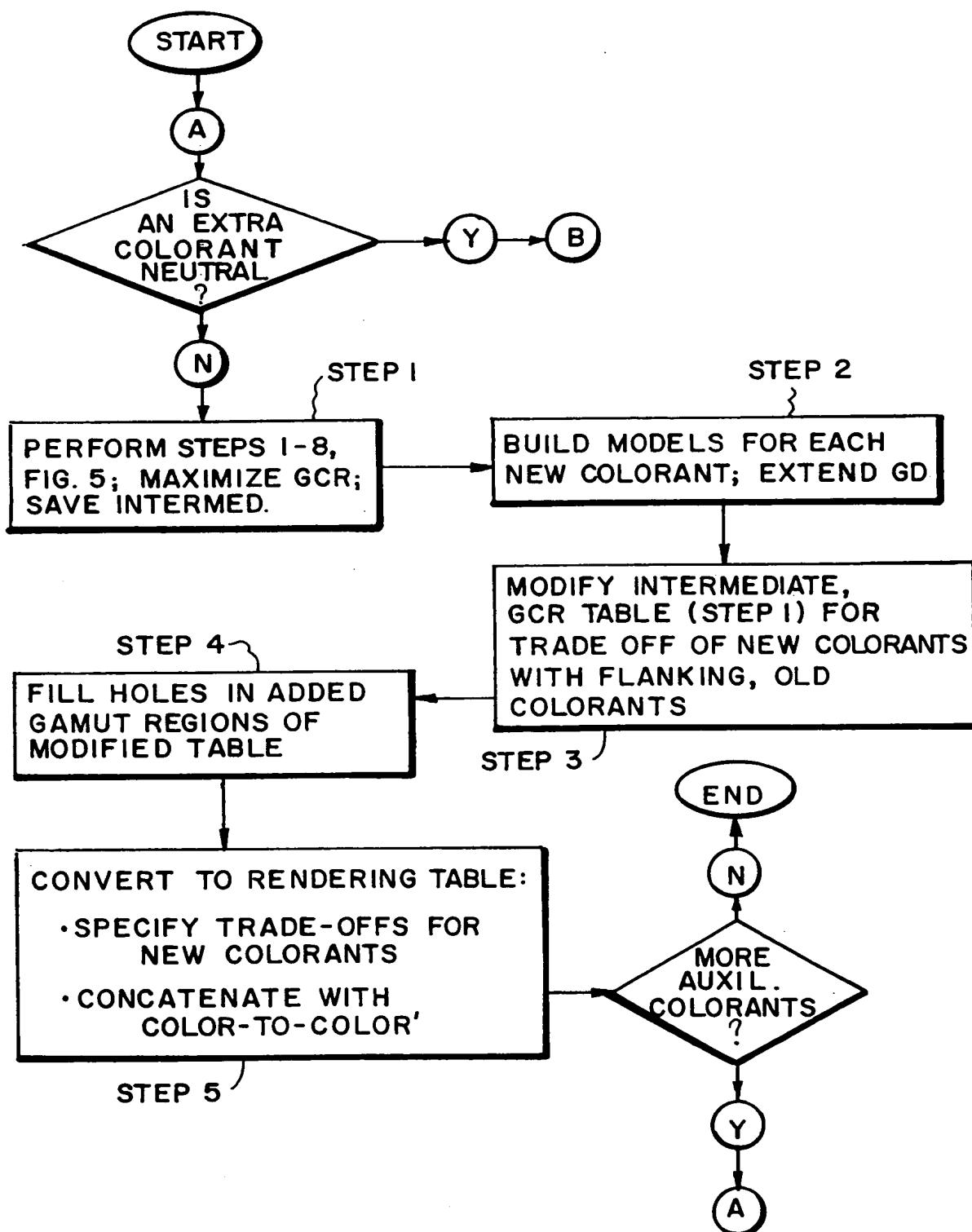
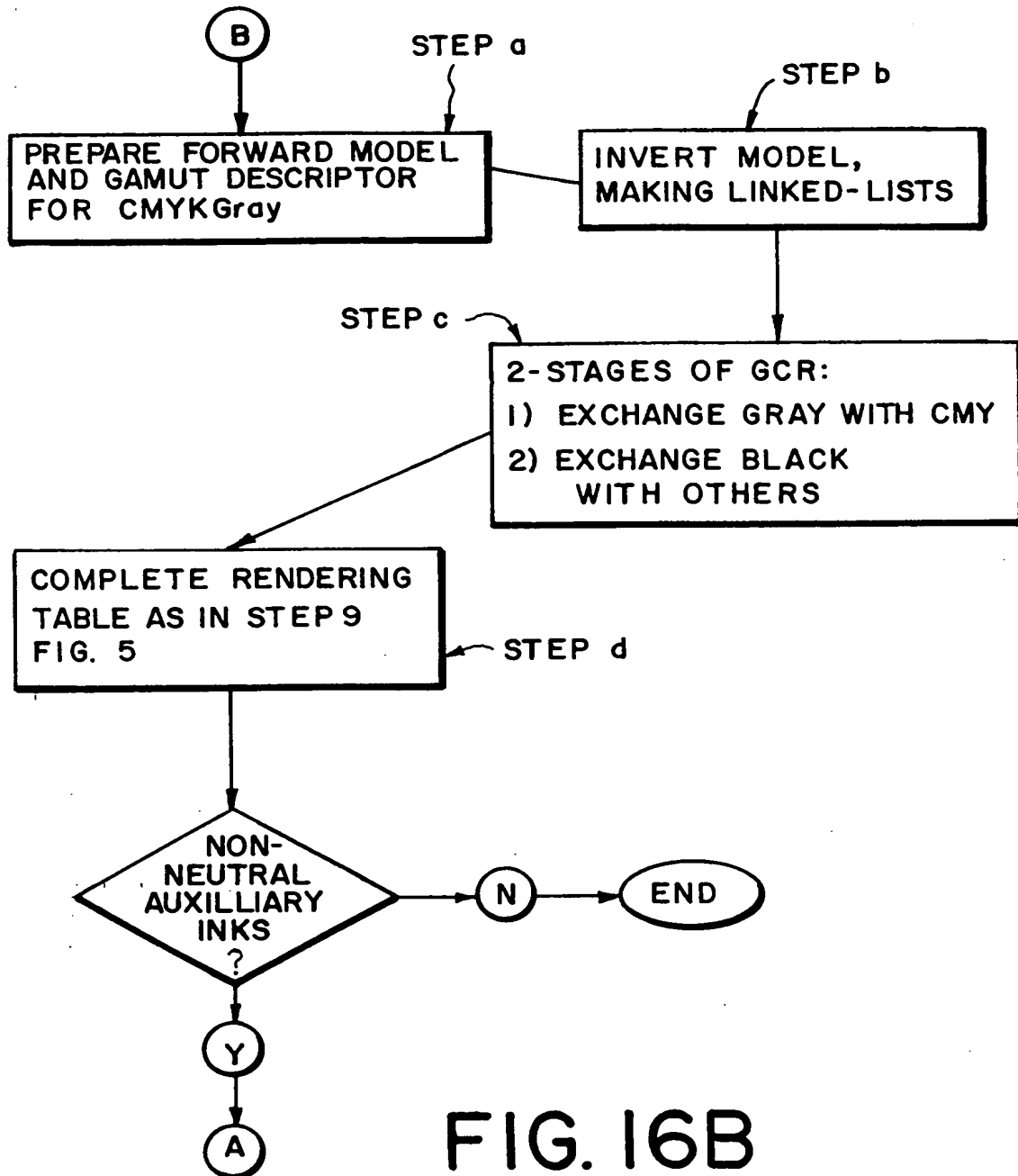
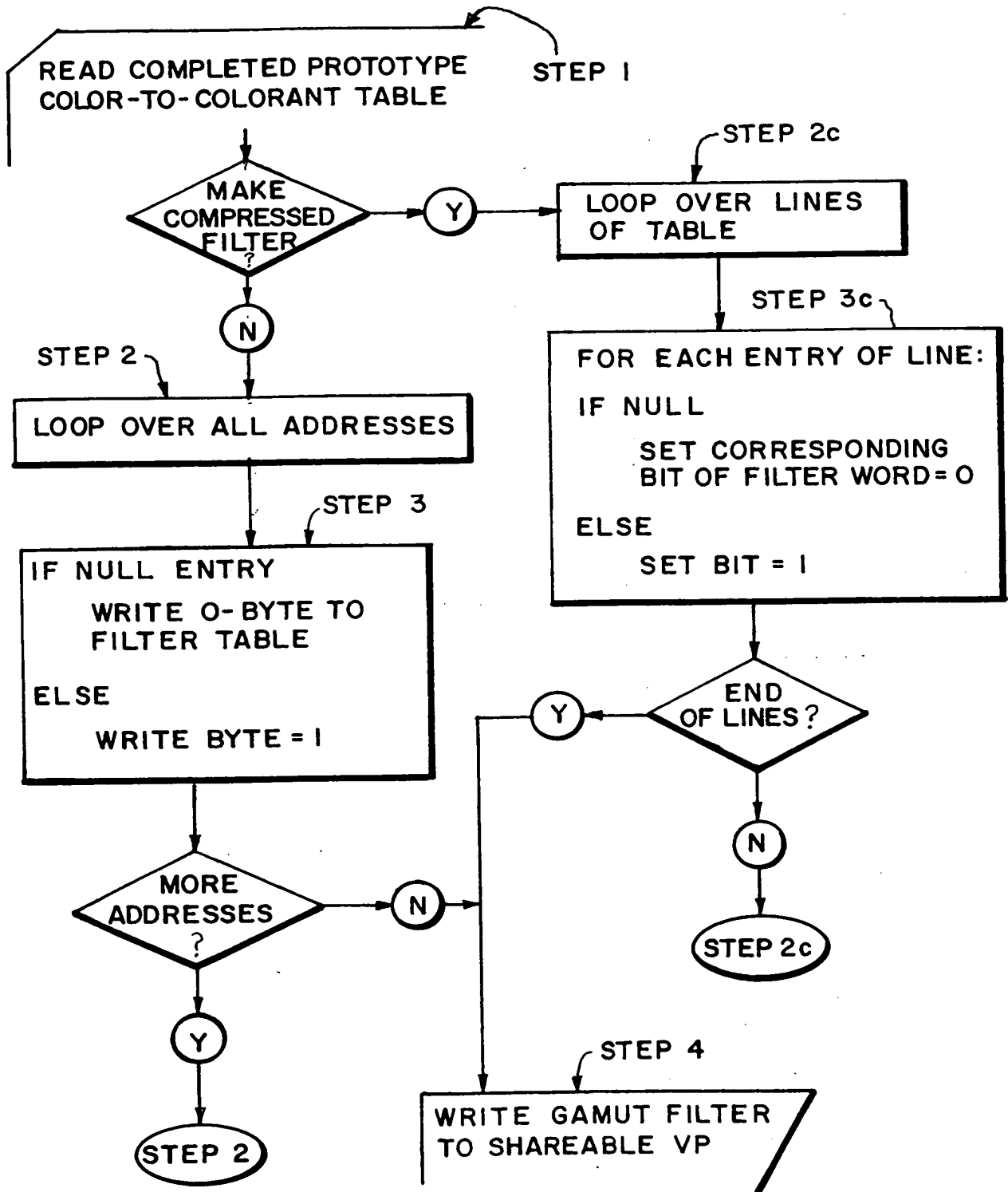
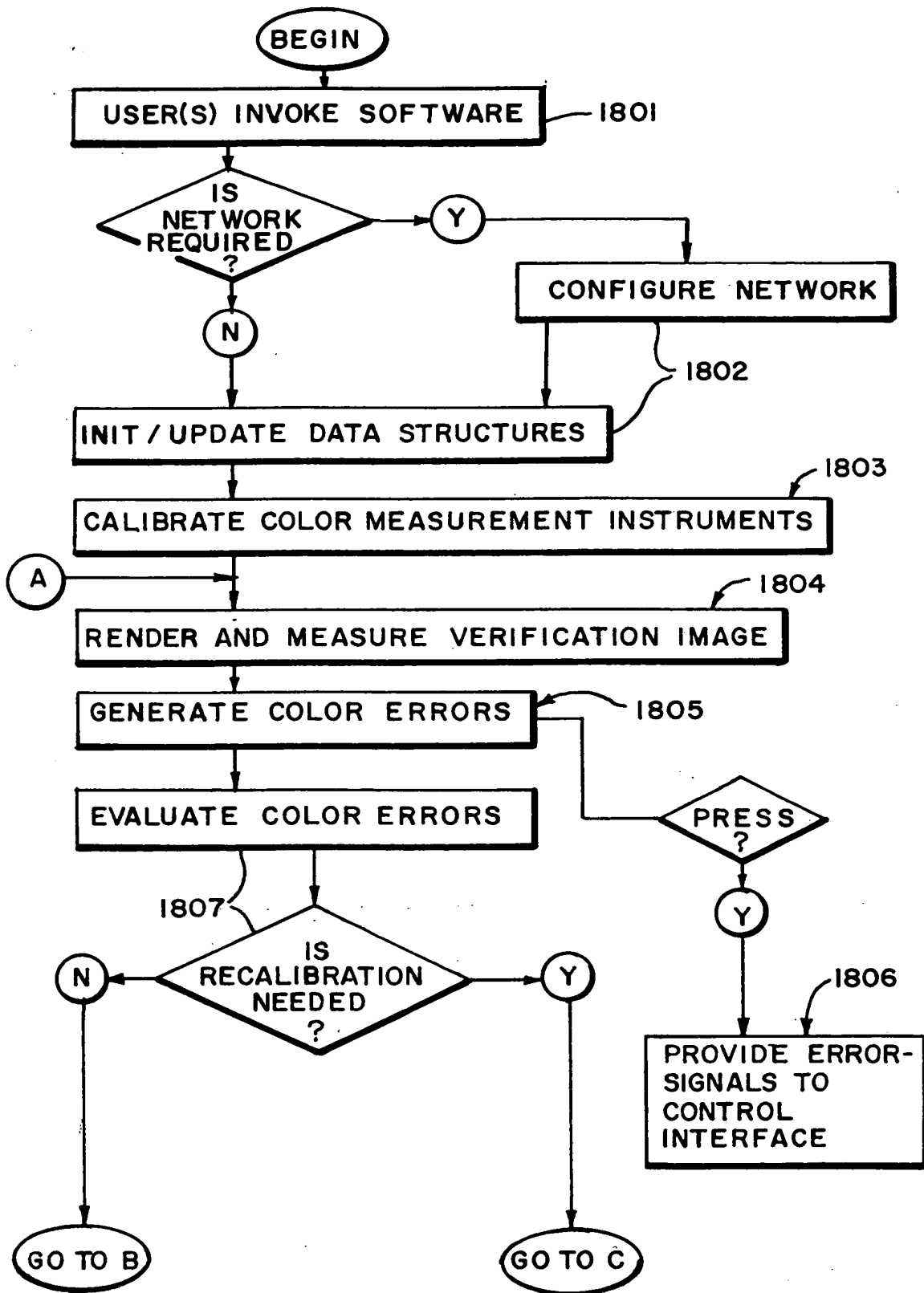


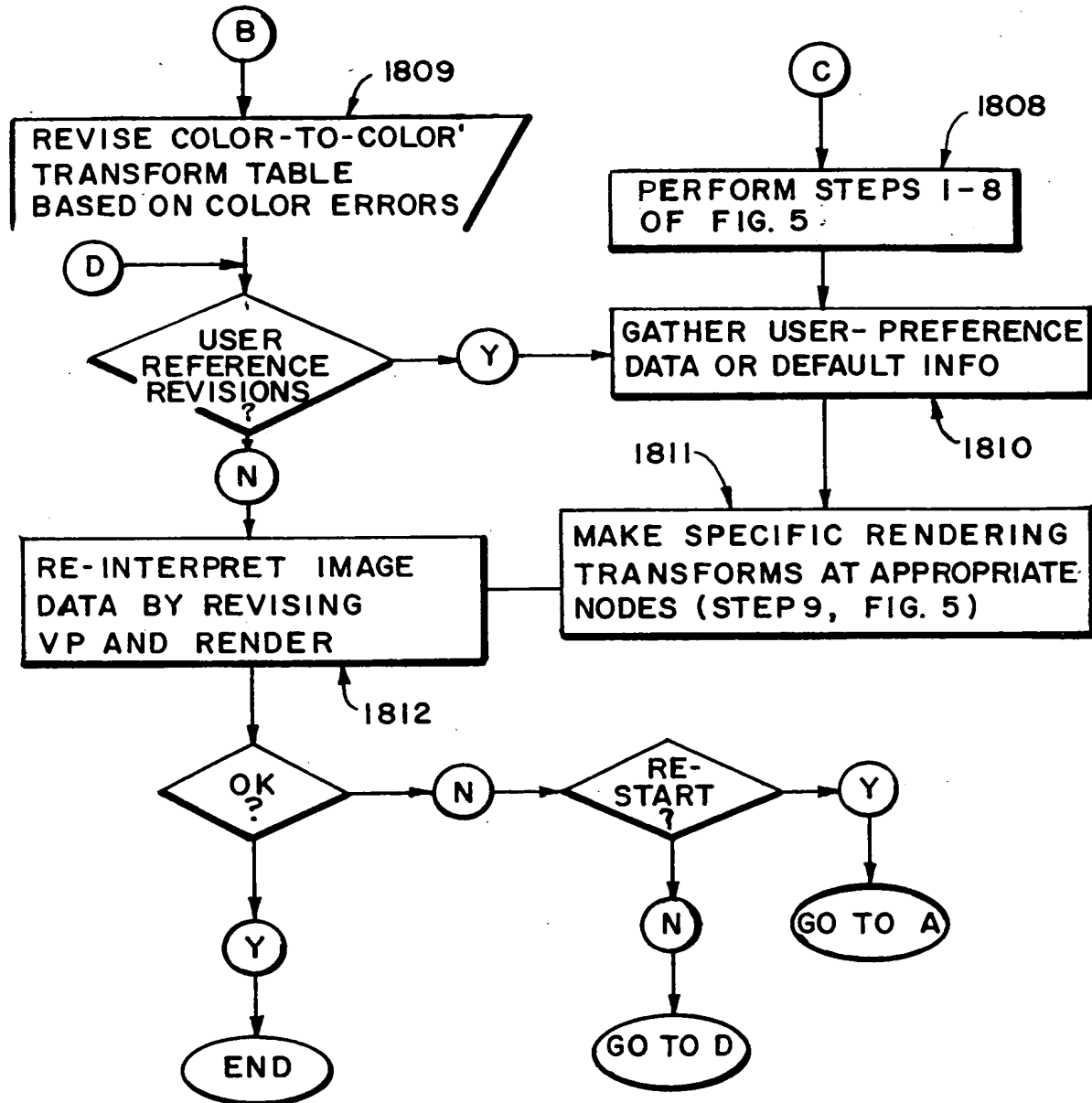
FIG. 15C

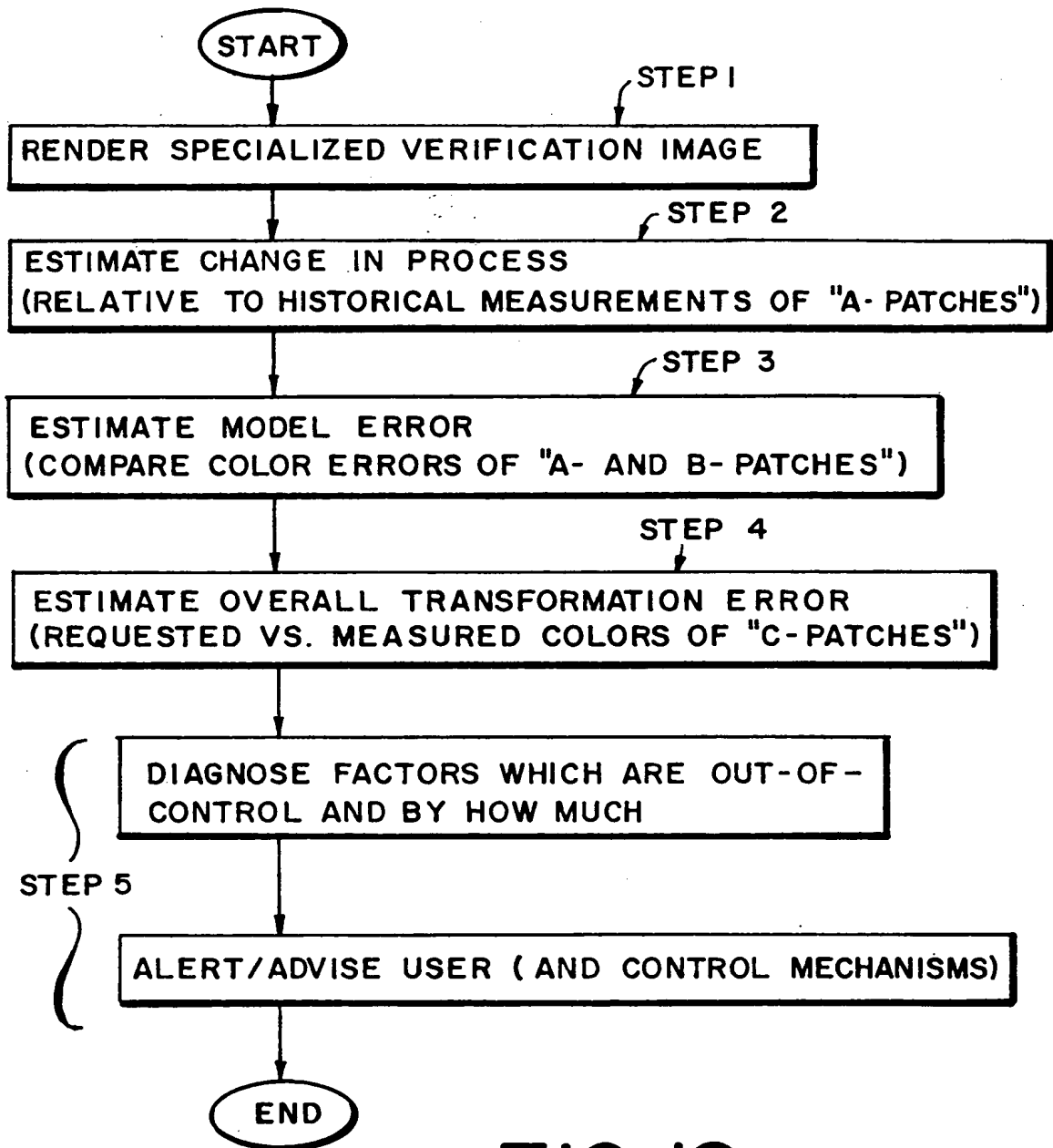
FIG. 16A

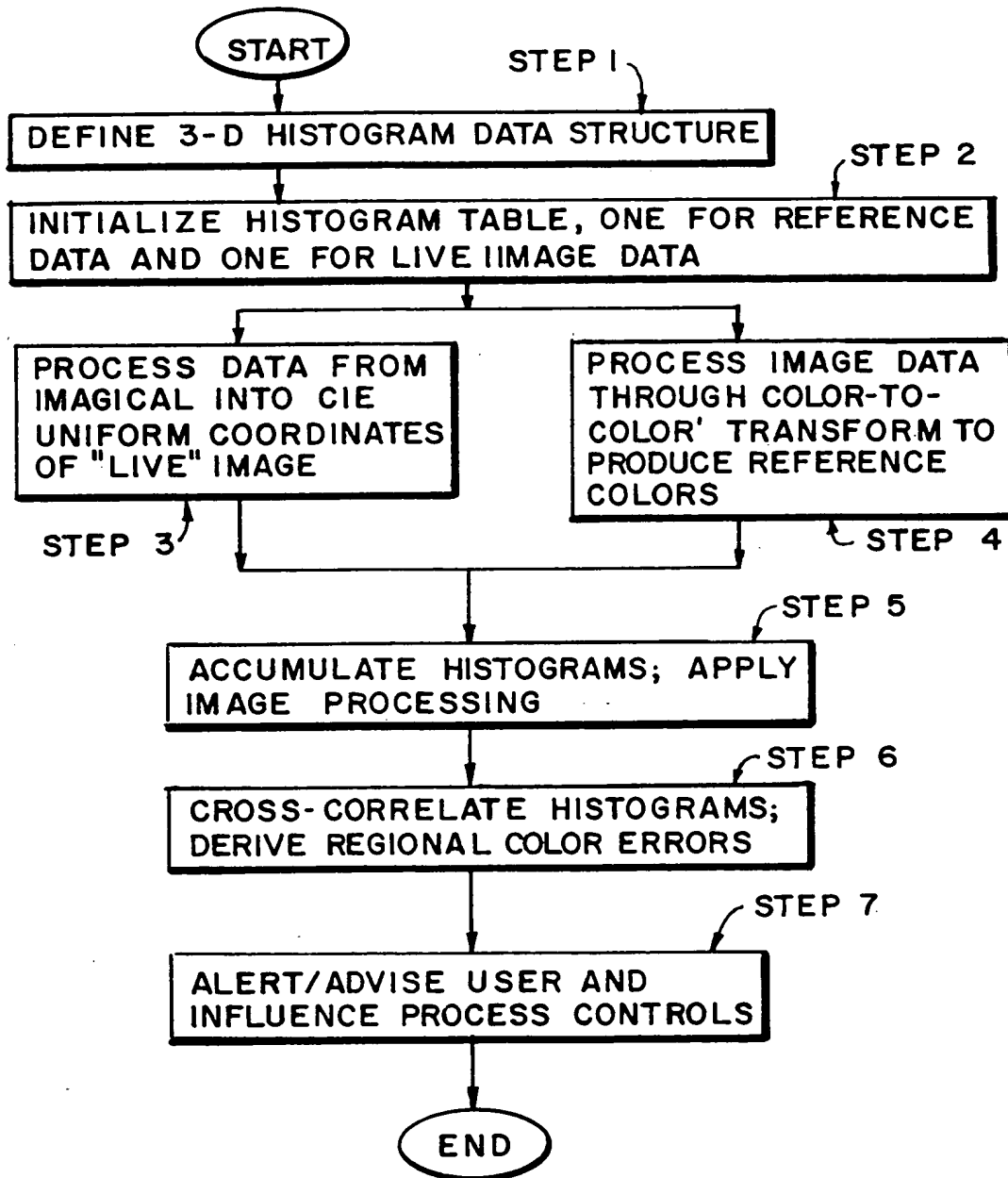
FIG. 16B

FIG. 17

**FIG. 18A**

FIG. 18B

FIG. 19

FIG. 20

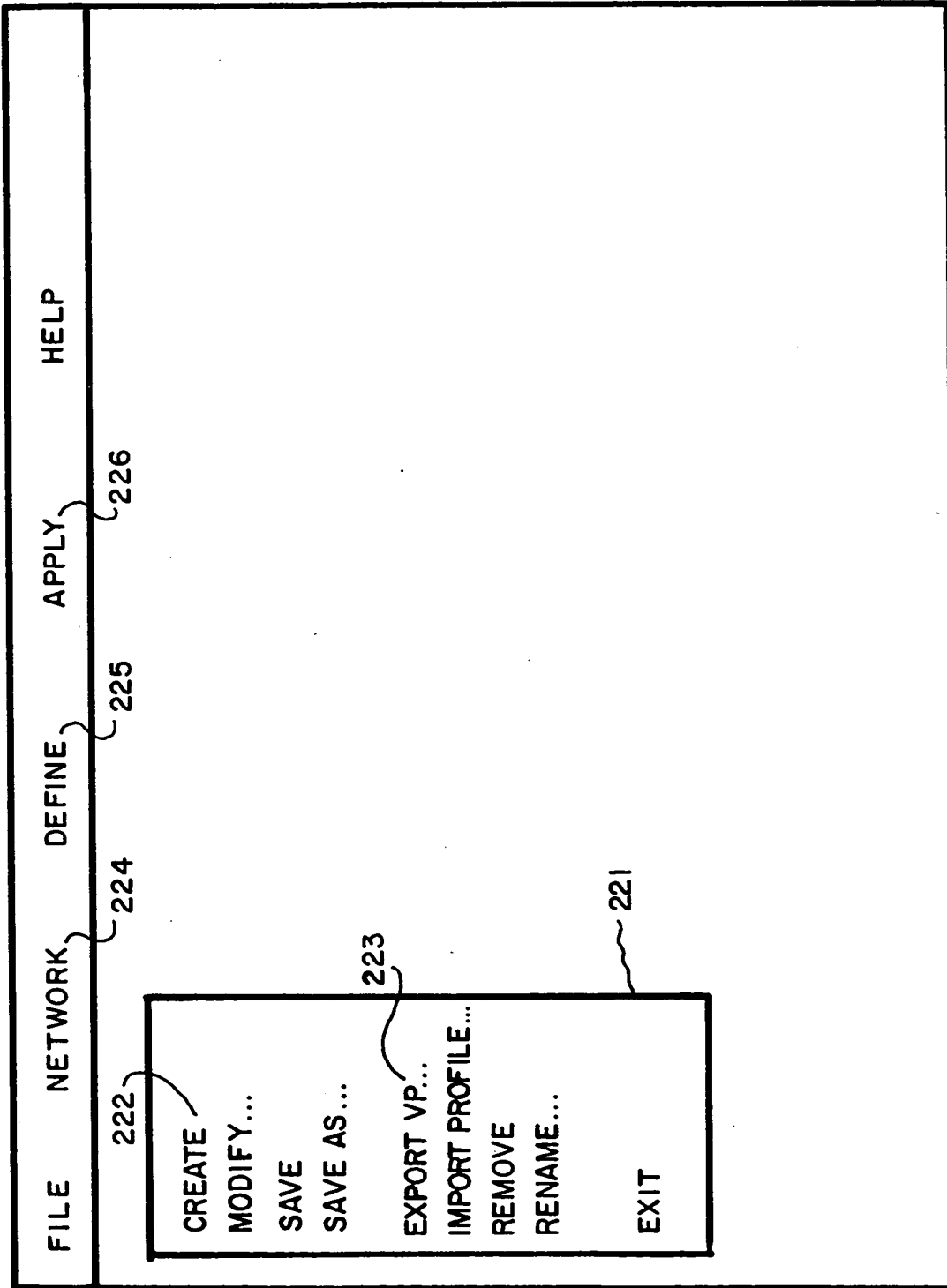


FIG. 21A

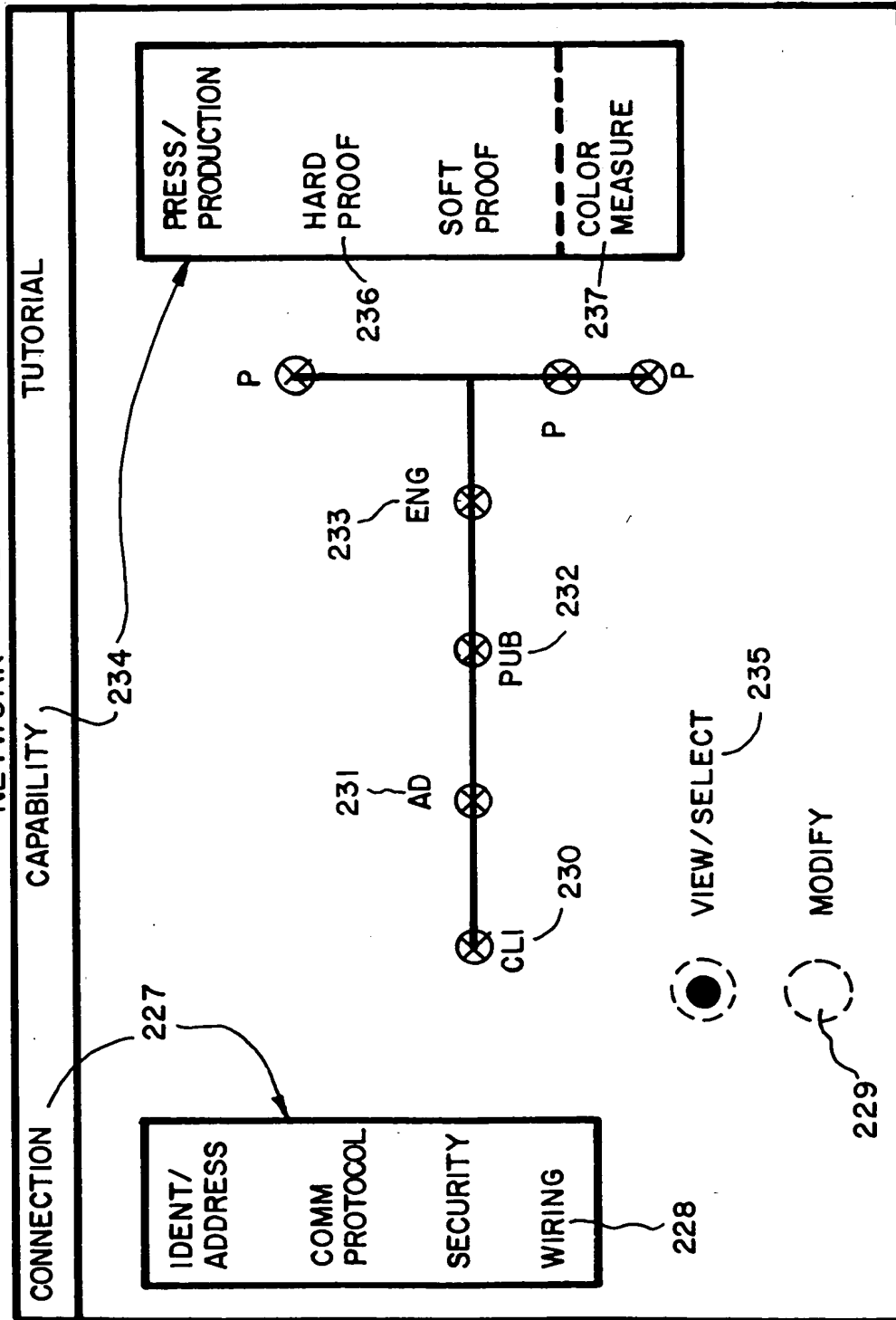


FIG. 21B

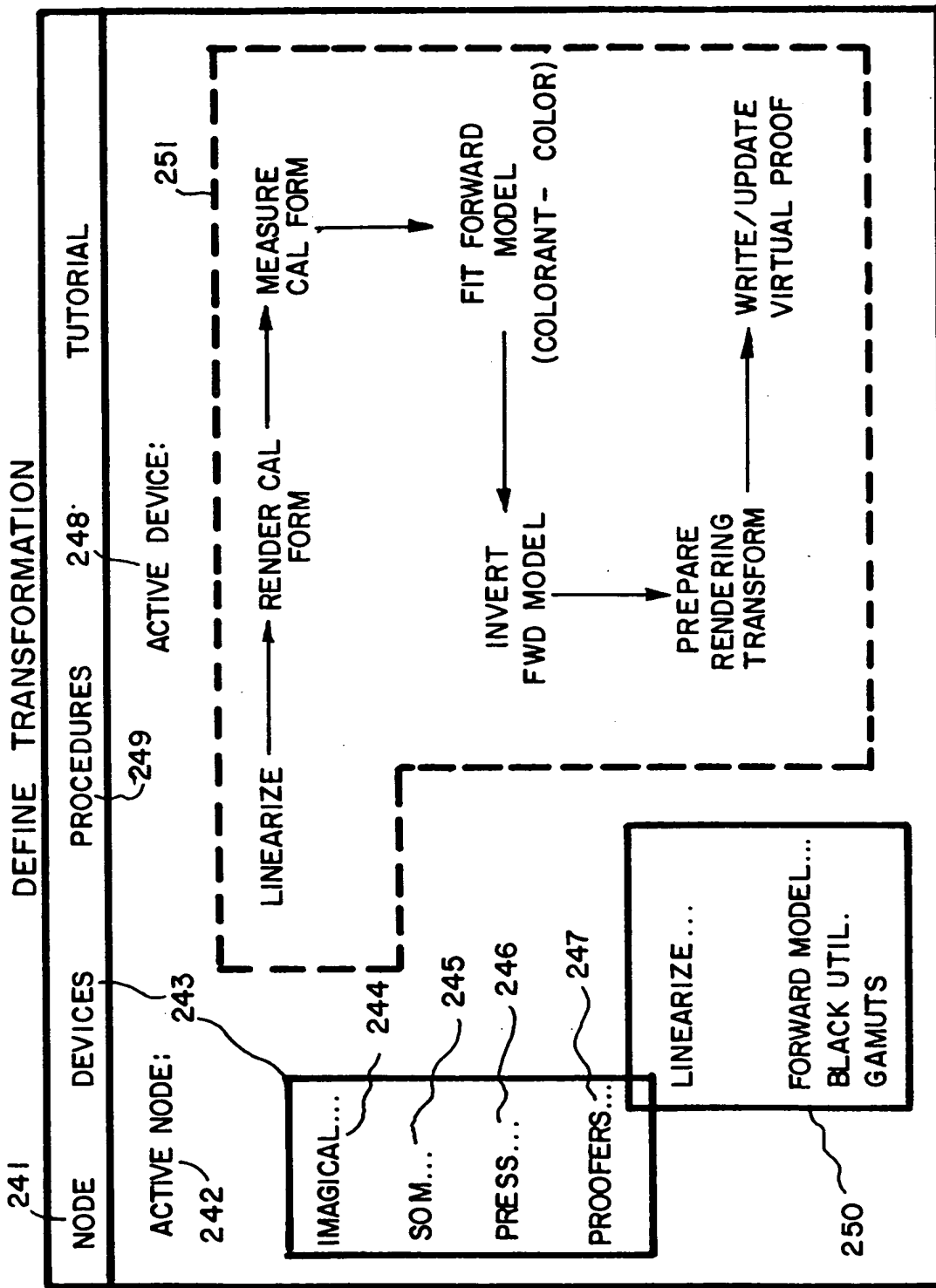


FIG.21C

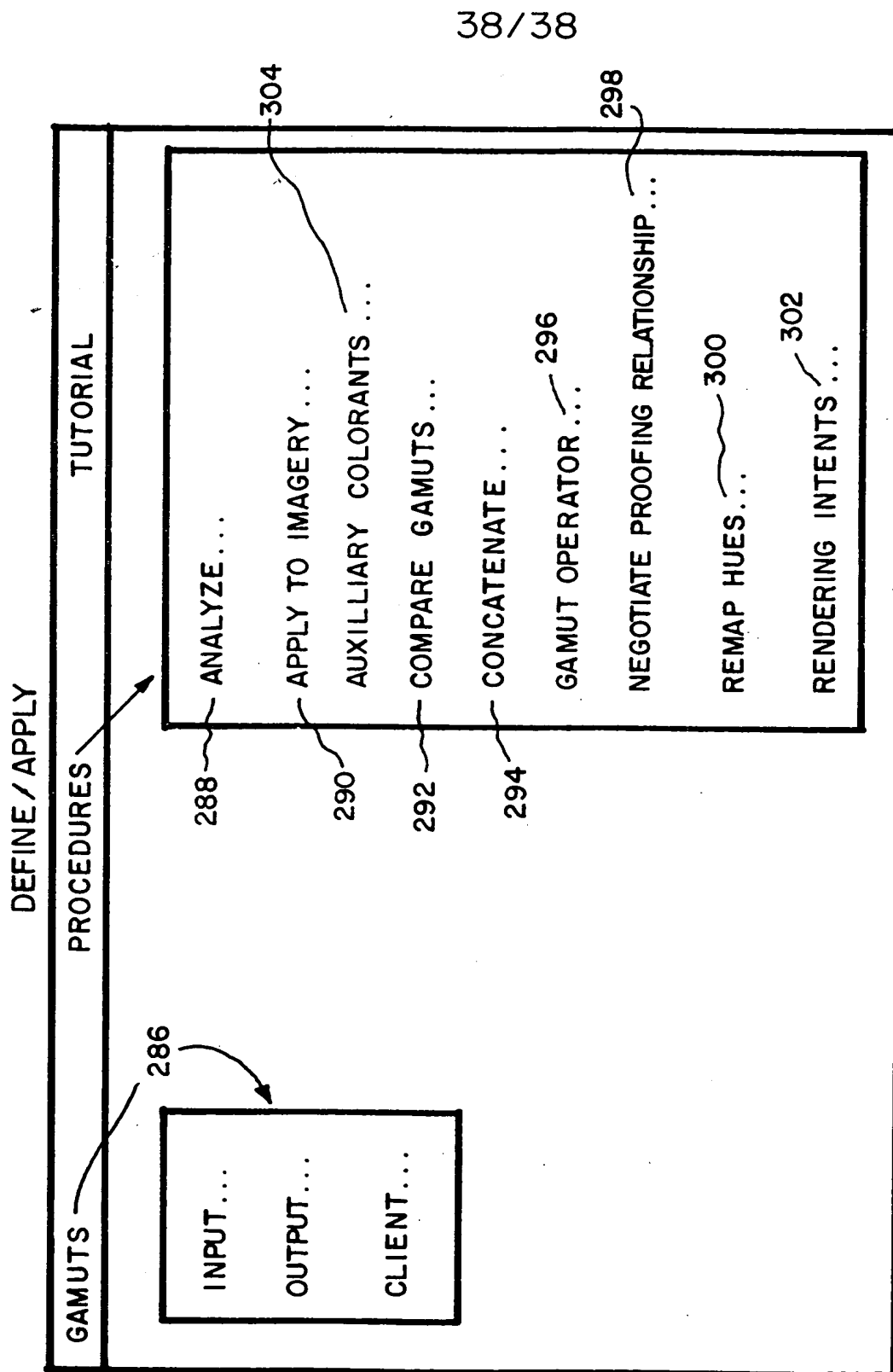


FIG. 21F